UHF FM TRANSCEIVER / UHF 调频对讲机

TK-868G

SERVICE MANUAL/维修手册

128 channels / 128 条信道

Panel assy

(A62-0642-03)

KENWOOD

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SUPPLEMENT / 追补版

This TK-868G service manual contains a number of sections which differ from the service manual (B51-8500-00) for the TK-868G.

For items other than those in this TK-868G service manual please refer to the service manual (B51-8500-00) for the TK-868G.

本TK-868G维修手册记述了不同于TK-868G用维修手册(B51-8500-00)部分的内容。

对于本TK-868G维修手册中未予记载的项目, 请参阅 TK-868G的维修手册(B51-8500-00)。



Key top (K29-5343-02)

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REALIGNMENT / 模式组合

Service Manual List

Title	Parts number	Remarks	Destination	TX-RX unit
				PCB number
TK-868G	B51-8500-00		C,C3	J72-0678-02
TK-868G	B51-8502-00		М,М3	J72-0678-02
TK-868HG	B51-8541-00	SUPPLEMENT	С	J72-0760-02
TK-868HG	B51-8541-10	REVISED	C,C3	J72-0760-12
TK-868G	B51-8566-00	SUPPLEMENT	C6	J72-0760-22
		This Service manual		

Frequency range C,M: $450\sim490MHz$

C3,M3: 400~430MHz C6: 350~390MHz

Self Programming Mode

Write mode for frequency data and signalling etc. Mainly used by the person maintaining the user equipment.

■ Enter to the Self Programming Mode

Hold down the [A] key and turn the power switch on. When enter the self programming mode, "SELF" is displayed.

Flow chart

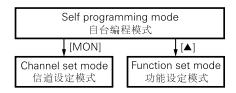
自台编程模式

频率数据和信令等的写入模式。主要用于维护用户设备。

■ 进入自台编程模式

按住[A]键并接通电源。当进入自台编程模式时, "SELF"显示。

● 流程图



Note:

This mode (self programming mode) cannot be set when it has been disabled with the FPU.

注释:

当此模式(自台编程模式)被FPU设置为无效时,不能设定 此模式。

Ignition Sense Cable (KCT-18: Option)

The KCT-18 is an optional cable for enabling the ignition function. The ignition function lets you turn the power to the transceiver on and off with the car ignition key.

If you use the Horn Alert function or the Manual Relay function, you can turn the function off while driving with the ignition key.

■ Connecting the KCT-18 to the Transceiver

- 1. Install the KCT-19 in the transceiver.
- 2. Insert the KCT-18 lead terminal (②) into pin 3 of the square plug (①) supplied with the KCT-19, then insert the square plug into the KCT-19 connector (③).

点火传感器电缆(KCT-18:可选件)

KCT-18是用于使用点火功能的可选电缆。点火功能允许用户使用汽车点火器接通和关闭通信机的电源。

如果使用喇叭告警功能或手动继电器功能, 用户可以在使用点火钥匙开车的过程中关闭此功能。

■ 将KCT-18连接到车台

- 1. 在车台上安装KCT-19。
- 2. 将KCT-18的引线头(②)插入KCT-19方形插头(❶)的管脚3上,然后将方形插头插入KCT-19连接器(③)。

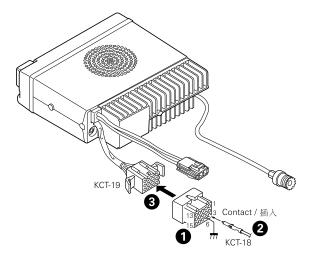


Fig. 1 / 图 1

■ Modifying the Transceiver

Modify the transceiver as follows to turn the power or the Horn Alert or Manual Relay function on and off with the ignition key.

- 1. Remove the lower half of the transceiver case.
- 2. Set jumper resistors (0 Ω) R134 and R135 of the TX-RX unit (A/2) as shown in Table 1.

■ 改装车台

按照下述方法改装车台能够通过点火钥匙开启和关闭电源,喇叭告警或手动继电器功能。

- 1. 取下车台的底壳。
- 2. 按照表1的内容设定发射-接收单元的跳线电阻 (OΩ)R134和R135。

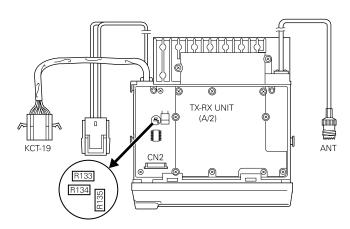


Fig. 2 / 图 2

Operation when KCT-18	R134	R135	
is connected			
	Yes	Yes	← KCT-18 cannot
Power on/off and Horn	No	Yes	be connected
Alert or AUX-A on/off			
Horn Alert or AUX-A	Yes	No	
on/off			
	No	No	← Power cannot
			be turned on

Table 1 R134 and R135 setup chart

当连接了KCT-18时操作	R134	R135	
	使用	使用	← KCT-18不能被
接通/关闭电源和开启/	不使用	使用	连接
关闭喇叭告警或AUX-A			
开启/关闭喇叭告警或	使用	不使用	
AUX-A			
	不使用	不使用	│ ← 不能接通电源

表1 R134和R135设置表

PA/HA Unit (KAP-1: Option)

■ Installing the KAP-1 in the Transceiver

The Horn Alert (max. 2A drive) and Public Address functions are enabled by inserting the KAP-1 W1 (3P; white/black/red) into CN3 on the TX-RX unit, inserting W2 (3P; green) into CN7 on the TX-RX unit, and connecting the KCT-19 (option) to CN2 and CN3 of the KAP-1.

• Installation procedure

- 1. Open the upper case of the transceiver.
- Insert the two cables (1) with connectors from the KAP-1 switch unit into the connectors on the transceiver.
- Secure the switch unit board to the chassis with a screw (3). The notch (2) in the board must be placed at the front left side.
- 4. Attach the cushion on the top of the KAP-1 switch unit.

PA/HA单元(KAP-1:可选件)

■ 在车台上安装KAP-1

喇叭告警(最大2A驱动)和扩音功能通过将KAP-1 W1(3P:白/黑/红)插入发射-接收单元上的CN3,将W2(3P:绿)插入发射-接收单元上CN7,并且将KCT-19(可选件)连接到KAP-1的CN2和CN3而生效。

● 安装步骤

- 1. 打开车台的上机壳。
- 2. 将KAP-1开关单元的两根带插头的电缆插到车载台的插座上(**●**)。
- 3. 使用螺钉(③)将开关单元板固定在底座上。板上的切口 (②)必须放置在前端左侧。
- 4. 将减震垫放置在KAP-1开关单元的顶部。

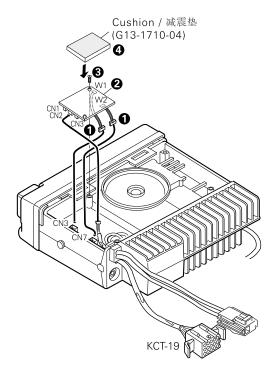


Fig. 3 / 图 3

■ Modifying the Transceiver

Horn alert

The signal from pin 4 of IC9 on the TX-RX unit turns Q5 and Q1 on and off and drives KAP-1 HA relay K2 to drive the horn with a maximum of 2A.

The default output is HR1. The relay open output can be obtained between HR1 and HR2 by removing R1 in the KAP-1.

	R1	Output form
HR1 (Default)	Yes	O HR1
HR2	No	0 HR1

■ 改装车台

● 喇叭告警

来自于TX-RX单元上IC9的管脚4的信号接通和断开Q5和Q1,并且驱动KAP-1 HA继电器K2,使其以最大2A的电流驱动喇叭。

出厂设定的输出是HR1。通过移除KAP-1内的R1可以在HR1和HR2之间获得继电器开路输出。

	R1	输出形式
HR1 (出厂设定)	使用	O HR1
HR2	不使用	O HR1

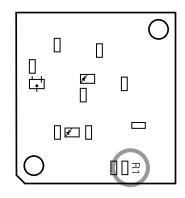


Fig. 4 KAP-1 foil side view 图 4

Public address

The signal from pin 13 of IC9 on the TX-RX unit drives PA relay in the KAP-1 and switches the audio power amplifier output between the external PA system (through KCT-19) and internal and external speakers.

To use the PA function, R153 on the TX-RX unit must be removed.

	R153
Use the PA function	No
Do not use the PA function	Yes

● 扩音功能

来自于TX-RX单元上IC9的管脚13的信号驱动KAP-1上的PA继电器K1. 并且在外置PA系统(通过KCT-19)和内置以及外置扬声器之间转换音频功率放大器输出。

要使用PA功能, TX-RX单元上的R153必须被移除。

	R153
使用PA功能	不使用
不使用PA功能	使用

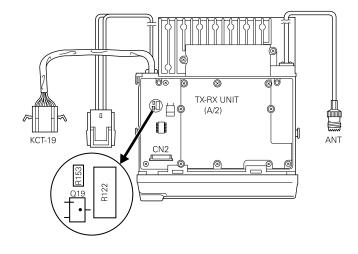


Fig. 5 / 图 5

■ Others

If the PA and HR2 are not necessary and the speaker output is output to an external unit through the KCT-19, connect the KCT-19 C connector to CN8 on the TX-RX unit.

■ 其他

如果不需要PA和HR2. 并且扬声器输出通过KCT-19被输出到外置单元. 则将KCT-19 C连接器连接到TX-RX单元上的CN8。

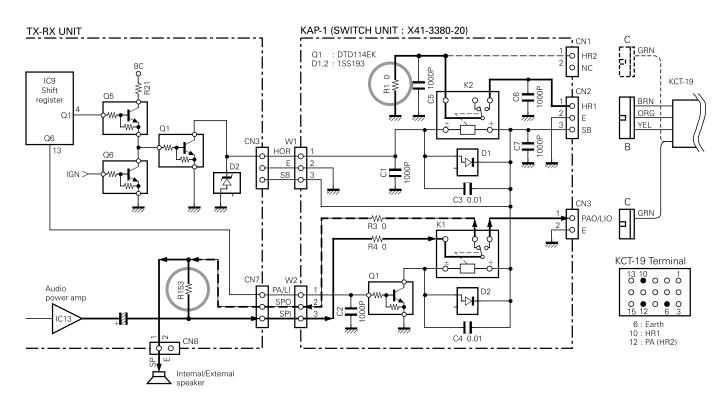


Fig. 6 / 图 6

INSTALLATION / 安装

Emergency Mode

■ Transceiver Modification Procedure

• install the foot switch

Install the foot switch through the KCT-19 and KCT-18. When the switch is treaded on, the radio enters the emergency mode.

Change the power switch circuit

TX-RX unit (B/2) : Control section \$R705 : Attach (R92-1252-05, 0Ω)

TX-RX unit (A/2): RF section

R142 : Remove (RK73GB1J473J, $47k\Omega$)

Once the transceiver is modified, it cannot be turned on and off with the power switch. The power switch turns the LCD backlight and display on and off. (The power is switched on and off by IGNITION SENSE.)

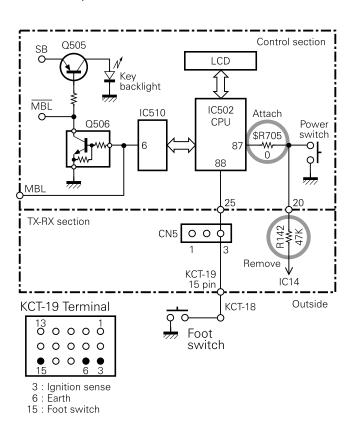


Fig. 7 / 图 7

应急模式

■ 车台机修改步骤

● 安装底脚开关

当按下开关时,通过KCT-19和KCT-18安装底脚开关,车台机进入应急模式。

● 改变电源开关电路

TX-RX单元(B/2):控制部分

\$R705:附带(R92-1252-05, 0Ω)

TX-RX单元(A/2):射频部分

R142: 移除 (RK73GB1J473J, 47kΩ)

由于车台机已被修改. 所以不能通过电源开关开启和改变车台机。电源开关开启和关闭 显示器背景灯光和显示器。 (通过启动传感器开启和关闭电源。)

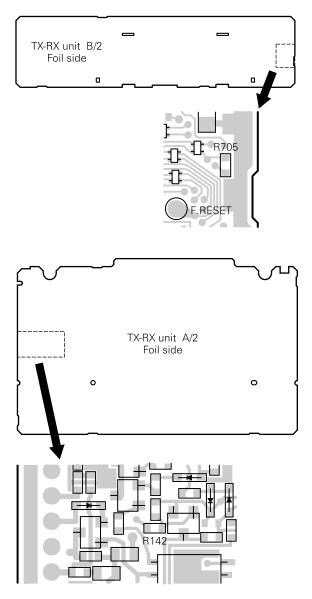
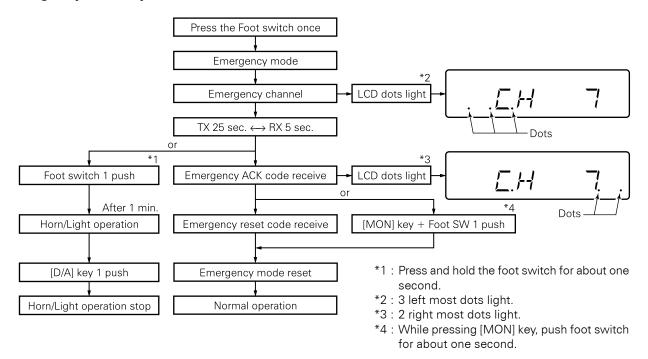
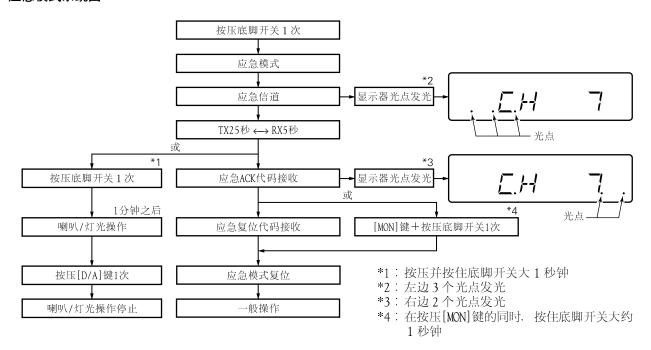


Fig. 8 / 图 8

■ Emergency Mode System Chart



■ 应急模式系统图



PARTS LIST / 零件表

CAPACITORS

 $\frac{\text{CC}}{1}$ $\frac{45}{2}$ $\frac{\text{TH}}{3}$ $\frac{1H}{4}$ $\frac{220}{5}$ $\frac{\text{J}}{6}$

1 = Type ... ceramic, electrolytic, etc.

4 = Voltage rating

2 = Shape ... round, square, ect.

5 = Value

3 = Temp. coefficient

6 = Tolerance



Capacitor value

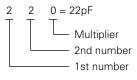
010 = 1pF

100 = 10pF

101 = 100pF

 $102 = 1000 pF = 0.001 \mu F$

 $103 = 0.01 \mu F$



• Temperature coefficient

1st Word	С	L	Р	R	S	Т	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	Н	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60 ppm/°C

Tolerance (More than 10pF)

	Code	С	D	G	J	K	М	Χ	Z	Р	No code
ĺ	(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than $10\mu\text{F} - 10 \sim +50$
								-20	-20	-0	Less than $4.7\mu\text{F} - 10 \sim +75$

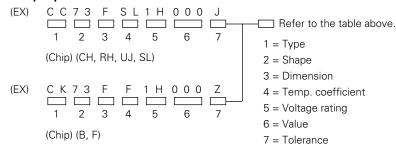
(Less than 10pF)

Code	В	С	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word	Α	В	С	D	Е	F	G	Н	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

· Chip capacitors

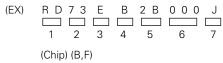


Dimension (Chip capacitors)

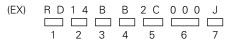
Dimension code	L	W	Т
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
А	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
В	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
С	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0
Н	1.0 ± 0.05	0.5 ± 0.05	0.5 ± 0.05

RESISTORS

· Chip resistor (Carbon)



• Carbon resistor (Normal type)



1 = Type ... ceramic, electrolytic, etc.

5 = Voltage rating

7 = Tolerance

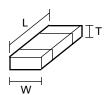
2 = Shape ... round, square, ect.

6 = Value

4 = Temp. coefficient

3 = Dimension

Dimension



Dimension (Chip resistor)

Dimension code	L	W	Т
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1
Н	1.0 ± 0.05	0.5 ± 0.05	0.35 ± 0.05

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	ЗА	1W
2A	1/10W	2E	1/4VV	3D	2W
2B	1/8W	2H	1/2W		

PARTS LIST / 零件表

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

L : Scandinavia Y : PX (Far East, Hawaii) Y : AAFES (Europe) **K**: USA **T**: England P : Canada E : Europe

X: Australia M: Other Areas

TK-868G DISPLAY UNIT (X54-3270-10) TX-RX UNIT (X57-5963-09)

Ref. No.	Address	New parts	Parts No.	Description	Desti- nation
	1	,4	TK-	868G	
1 2 3	1B 2A 2A		A01-2165-13 A01-2166-13 A62-0642-03	CABINET UPPER CABINET BOTTOM PANEL ASSY	
6 7 8 9	2B 2A 2D 1C	*	B11-1226-03 B38-0824-05 B62-1259-20 B72-1951-04	ILLUMINATION GUIDE LCD INSTRUCTION MANUAL MODEL NAME PLATE	
11 12 14 -	2B 1C 1C		E29-1179-04 E30-2145-15 E30-3340-05 E30-3404-05 E37-0790-25	INTER CONNECTOR ANTENNA CABLE RADIO DC CORD EXTENSION CABLE LEAD WIRE WITH CONNECTOR (SP)	
17 - - -	2B		E37-0815-05 E37-0852-05 E37-0853-05 E37-0854-05 E37-0855-05	FLAT CABLE LEAD WIRE WITH CONNECTOR (15P) LEAD WIRE WITH CONNECTOR (10P) LEAD WIRE WITH CONNECTOR (8P) LEAD WIRE WITH CONNECTOR (3P)	
18	2B		F12-0435-04	CONDUCTIVE SHEET	
21 22 23 24 25	1C 1B,1C 1B 1A,2C 1C		G02-0791-04 G10-1221-04 G10-1222-14 G10-1223-14 G13-1468-04	FLAT SPRING AF, APC FIBROUS SHEET SIDE FIBROUS SHEET UP, DOWN FIBROUS SHEET SHIELD CUSHION DC CORD	
26 27	1B 2C		G13-1759-04 G53-0796-04	CUSHION SP PACKING PHONE JACK	
30 31 33 34	2D 1E 2E 3E		H10-6618-12 H10-6619-12 H25-0720-04 H52-1520-02	POLYSTYRENE FOAMED FIXTURE (F) POLYSTYRENE FOAMED FIXTURE (R) PROTECTION BAG (200X350) ITEM CARTON CASE	
37	2A		J21-8382-03	HARDWARE FIXTURE	
40	2A		K29-5343-02	KEY TOP	
A B C D	2A,1B 2C 2B,1C 2B		N33-2606-45 N67-3008-46 N87-2606-46 N87-2612-46	OVAL HEAD MACHINE SCREW PAN HEAD SEMS SCREW W BRAZIER HEAD TAPTITE SCREW BRAZIER HEAD TAPTITE SCREW	
44	1B		T07-0368-05	SPEAKER	
		DI	SPLAY UNIT	Г (Х54-3270-10)	
D802-805			B30-2220-05	LED (YELLOW)	
C801-803 C804 C805 C806,807			CC73GCH1H101J CK73GF1A105Z CK73GB1H102K CK73GB1H471K	CHIP C 100PF J CHIP C 1.0UF Z CHIP C 1000PF K CHIP C 470PF K	
CN801			E40-6020-05	PIN ASSY	
L801			L92-0138-05	FERRITE CHIP	

					TX-RX	UNIT (X57-5	963-09)
Ref. No.	Address	New parts	Parts No.		Descripti	on	Desti- nation
R801-803 R804 R805 R806 R808			RK73GB1J103J RK73GB1J473J RK73GB1J474J R92-1252-05 RK73GB1J392J	CHIP R 4 CHIP R 4 CHIP R 0	0K J 17K J 170K J 0 OHM 3.9K J	1/16W 1/16W 1/16W	
R809			RK73FB2A270J	CHIP R 2	27 J	1/10W	
D801 D808 D808 IC801 Q801			MA2S111 DA204U HSB123 LC75823W 2SB1132(Q,R)	DIODE DIODE DIODE IC (LCD DRIV TRANSISTOF			
		٠.	TX-RX UNIT	(X57-59	63-09		
D509-514 D521			B30-2050-05 B30-2151-05	LED LED (RED/GR	EEN)		
C1-11 C13-19 C20 C21 C22			CK73GB1H471K CK73GB1H471K C92-0507-05 CK73GB1H471K CK73GB1C104K	CHIP C CHIP C CHIP-TAN CHIP C CHIP C	470PF 470PF 4.7UF 470PF 0.10UF	K K 6.3WV K K	
C23,24 C26 C29 C30 C31			C92-0507-05 CK73GB1H471K C92-0507-05 CC73GCH1H030C CK73GB1H102K	CHIP-TAN CHIP C CHIP-TAN CHIP C CHIP C	4.7UF 470PF 4.7UF 3.0PF 1000PF	6.3WV K 6.3WV C K	
C32 C33 C35 C36 C37			C92-0662-05 CC73GCH1H220J CK73GB1C104K CK73GB1H102K CK73FB1C334K	CHIP-TAN CHIP C CHIP C CHIP C CHIP C	15UF 22PF 0.10UF 1000PF 0.33UF	6.3WV J K K K	
C40,41 C43 C44 C45 C46			CK73GB1H103K C92-0507-05 CK73GB1H331K CK73GB1H102K CK73GB1H103K	CHIP C CHIP-TAN CHIP C CHIP C CHIP C	0.010UF 4.7UF 330PF 1000PF 0.010UF	K 6.3WV K K K	
C47 C49 C51 C52 C53			C92-0561-05 CK73GB1H102K CK73GB1C104K CC73GCH1H680J CK73GB1C104K	CHIP-ELE CHIP C CHIP C CHIP C CHIP C	22UF 1000PF 0.10UF 68PF 0.10UF	16WV K K J K	
C54 C56 C58 C60,61 C62			CK73GB1H103K CC73GCH1H220J CK73GB1E223K CK73GB1H102K CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP C	0.010UF 22PF 0.022UF 1000PF 100PF	K K K J	
C63 C64 C66 C67 C68			CK73GB1C104K CK73GB1H103K CK73GB1H102K CK73GB1H471K CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP C	0.10UF 0.010UF 1000PF 470PF 100PF	K K K J	
C69 C70 C71			CK73GB1E223K C92-0507-05 CC73GCH1H101J	CHIP C CHIP-TAN CHIP C	0.022UF 4.7UF 100PF	K 6.3WV J	

PARTS LIST / 零件表

TX-RX UN		7-596 New					Desti-		1	New					Desti-
Ref. No.	Address	parts	Parts No.		Descripti	on	nation	Ref. No.	Address	parts	Faits No.		Descripti		nation
C72			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C148,149			CK73GB1H471K	CHIP C	470PF	K	
C73			CC73GCH1H101J	CHIP C	100PF	J		C150			CK73FF1C105Z	CHIP C	1.0UF	Z	
C74,75			CK73GB1H471K	CHIP C	470PF	K		C152			CC73GCH1H060D	CHIP C	6.0PF	D	
C78			CK73GB1H102K	CHIP C	1000PF	K		C154			CK73GB1H102K	CHIP C	1000PF	K	
C79,80			CK73GB1H221K	CHIP C	220PF	K		C155			CC73GCH1H030C	CHIP C	3.0PF	С	
C81			CK73GB1H471K	CHIP C	470PF	K		C156			CK73GB1H471K	CHIP C	470PF	K	
C82			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C157			CK73GB1H102K	CHIP C	1000PF	K	
C83			CC73GCH1H270J	CHIP C	27PF	J		C158			CK73GB1H471K	CHIP C	470PF	K	
C84			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C160,161			C92-0719-05	ELECTRO	47UF	25WV	
C86			C92-0662-05	CHIP-TAN	15UF	6.3WV		C162,163			CK73GB1H471K	CHIP C	470PF	K	
1007			007000114110001	CLUD C	OODE			0104			0720004114007	CLUD C	100000	V	
C87			CC73GCH1H330J	CHIP C	33PF	J		C164			CK73GB1H102K	CHIP C	1000PF	K	
C88			CK73GB1H103K	CHIP C	0.010UF	K		C165			C92-0719-05	ELECTRO	47UF	25WV	
C89			CK73GB1H471K	CHIP C	470PF	K		C166			CE04EW1E471M	ELECTRO	470UF	25WV	
C91			CC73GCH1H020B	CHIP C	2.0PF	В		C167			CK73GB1H471K	CHIP C	470PF	K	
C92			CK73GB1H471K	CHIP C	470PF	K		C168			CC73GCH1H070D	CHIP C	7.0PF	D	
C93			C92-0555-05	CHIP-TAN	0.047UF	35WV		C169			CK73GB1H471K	CHIP C	470PF	K	
C94-96			CK73GB1H471K	CHIP C	470PF	K		C172			CE04EW1E471M	ELECTRO	470UF	25WV	
C97			C92-0546-05	CHIP-TAN	68UF	6.3WV		C173		1	CK73GB1C104K	CHIP C	0.10UF	K	
C98	1		CK73GB1H103K	CHIP C	0.010UF	K.		C174			CK73GB1H471K	CHIP C	470PF	K	
C99			C92-0697-05	CHIP-TAN	3.3UF	16WV		C174			CC73GCH1H100D	CHIP C	10PF	D	
C100			CC73CC11411030D	CHID C	2 005	D		0177			CC72ECU4U200	CHIBC	OUDE	1	
C100	1		CC73GCH1H020B	CHIP C	2.0PF	В		C177			CC73FCH1H390J	CHIP C	39PF	J	
C101			CK73GB1H471K	CHIP C	470PF	K		C178		1	CC73GCH1H060D	CHIP C	6.0PF	D	
C102			CC73GCH1H020B	CHIP C	2.0PF	В		C179			CK73GB1H471K	CHIP C	470PF	K	
C103			CK73GB1H471K	CHIP C	470PF	K		C181			CK73GB1H471K	CHIP C	470PF	K	
C104			C92-0001-05	CHIP C	0.1UF	35WV		C182			CK73GB1H102K	CHIP C	1000PF	K	
C105			CK73GB1H471K	CHIP C	470PF	K		C183			CK73GB1C104K	CHIP C	0.10UF	K	
C106			CC73GCH1H180J	CHIP C	18PF	J		C185			CK73GB1C104K	CHIP C	0.10UF	K	
C107			CK73GB1H471K	CHIP C	470PF	K		C186			CK73GB1H471K	CHIP C	470PF	K	
C108			CC73GCH1H020B	CHIP C	2.0PF	В		C187			CC73GCH1H060D	CHIP C	6.0PF	D	
C109			CK73GB1H471K	CHIP C	470PF	K		C189,190			CK73GB1H471K	CHIP C	470PF	K	
C110			CC73GCH1H090D	CHIP C	9.0PF	D		C191			CK73GB1C104K	CHIP C	0.10UF	K	
C111			CC73GCH1H040C	CHIP C	4.0PF	С		C192			C92-0719-05	ELECTRO	47UF	25WV	
C112			CK73GB1H471K	CHIP C	470PF	K		C195			CK73GB1C104K	CHIP C	0.10UF	K	
C113			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C196,197			CK73GB1H471K	CHIP C	470PF	K	
C114			C92-0697-05	CHIP-TAN	3.3UF	16WV		C198			C92-0719-05	ELECTRO	47UF	25WV	
C115			CK73GB1H471K	CHIP C	470PF	K		C201			CK73GB1H471K	CHIP C	470PF	K	
C116			CK73GB1H103K	CHIP C	0.010UF	K		C202			CK73GB1C104K	CHIP C	0.10UF	K	
C117			CK73GB1H102K	CHIP C	1000PF	K		C203			CK73GB1H471K	CHIP C	470PF	K	
C118			CK73GB1H471K	CHIP C	470PF	K		C204			C92-0005-05	CHIP-TAN	2.2UF	6.3WV	
C119			CK73GB1H103K	CHIP C	0.010UF			C206			CK73GB1H471K	CHIP C	470PF	K	
C120			CC73GCH1H050C	CHIBC	5.0PF	C		C207			CV72CP1U102V	CHIP C	0.01011	V	
	1			CHIP C		C					CK73GB1H103K		0.010UF		
C121	1		CK73GB1H471K	CHIP C	470PF	K		C208			CC73GCH1H060D	CHIP C	6.0PF	D	
C122,123	1		CK73GB1C104K	CHIP C	0.10UF	K		C210			CK73GB1H103K	CHIP C	0.010UF	K	
C125	1		C92-0005-05	CHIP-TAN	2.2UF	6.3WV		C212			CK73GB1H471K	CHIP C	470PF	K	
C126			CC73GCH1H120J	CHIP C	12PF	J		C213			C93-0555-05	CHIP C	5.0PF	С	
C127			CK73GB1H103K	CHIP C	0.010UF	K		C216			CC73GCH1H0R5B	CHIP C	0.5PF	В	
C128			C92-0543-05	CHIP-TAN	3.3UF	10WV		C217		1	CC73GCH1H030C	CHIP C	3.0PF	C	
C129			CK73FF1C105Z	CHIP C	1.0UF	Z		C219		1	CC73FCH1H040C	CHIP C	4.0PF	С	
C130			CK73GB1H103K	CHIP C	0.010UF	K		C220		1	CK73GB1H471K	CHIP C	470PF	K	
C131			CK73GB1H102K	CHIP C	1000PF	K		C221			C93-0554-05	CHIP C	4.0PF	C	
C133			CK73GB1H471K	CHIP C	470PF	K		C222			CC73GCH1H0R5B	CHIP C	0.5PF	В	
C134	1		CK73FB1E104K	CHIP C	0.10UF	K		C223			CC73GCH1H020B	CHIP C	2.0PF	В	
C135			CK73GB1H471K	CHIP C	470PF	K		C224		1	CK73GB1H471K	CHIP C	470PF	K	
C133			CK73FB1E104K	CHIP C	0.10UF	K		C225		1	C93-0603-05	CHIP C	1000PF	K	
C138 C139,140			CK73FB1E104K CK73GB1H471K	CHIP C	470PF	K		C225			C93-0559-05	CHIP C	9.0PF	D D	
			000 0740 07	FLEOTES	47115			0007				OLUB C			
C141	1		C92-0719-05	ELECTRO	47UF	25WV		C227			C93-0562-05	CHIP C	15PF	J	
C142,143	1		CK73GB1H471K	CHIP C	470PF	K		C229			C93-0561-05	CHIP C	12PF	J	
C144	1		CK73GB1H102K	CHIP C	1000PF	K		C230,231			CK73GB1C104K	CHIP C	0.10UF	K	
C145			CC73GCH1H150J	CHIP C	15PF	J		C241		1	CK73GB1H102K	CHIP C	1000PF	K	
C146			CK73GB1H471K	CHIP C	470PF	K	 	C243		1	CK73GB1H102K	CHIP C	1000PF	K	
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PARTS LIST / 零件表

													TX-R	X UNIT (X	7-5963-09
Ref. No.	Address	New parts	Parts No.		Descripti	on	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descripti	on	Desti- nation
C247			CK73GB1H102K	CHIP C	1000PF	K		C559			CK73GB1H102K	CHIP C	1000PF	K	
C248			C92-0585-05	CHIP-TAN	4.7UF	16WV		C560-563			CK73GB1C104K	CHIP C	0.10UF	K	
C250			CK73FF1C105Z	CHIP C	1.0UF	Z		C564			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C254			CK73GB1C104K	CHIP C	0.10UF	K		C567			CC73GCH1H101J	CHIP C	100PF	J	
C259			CK73GB1C104K	CHIP C	0.10UF	K		C568			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C265			CK73GB1H102K	CHIP C	1000PF	K		C569			CK73GB1C333K	CHIP C	0.033UF	K	
C270			CK73GB1H471K	CHIP C	470PF	K		C570			CK73FF1C105Z	CHIP C	1.0UF	Z	
C271			CK73GB1H472K	CHIP C	4700PF	K		C571,572			CK73GB1H102K	CHIP C	1000PF	K	
C275			CK73GB1H102K	CHIP C	1000PF	K		C573			CK73FB1H563K	CHIP C	0.056UF	K	
C276			C90-2046-05	ELECTRO	22UF	10WV		C574			CC73GCH1H470J	CHIP C	47PF	J	
C290			C92-0001-05	CHIP C	0.1UF	35WV		C575			CK73GB1H102K	CHIP C	1000PF	K	
C295			CC73GCH1H090D	CHIP C	9.0PF	D		C576			CK73GB1C104K	CHIP C	0.10UF	K	
C296			CC73GCH1H080D	CHIP C	8.0PF	D		C577,578			CK73GB1H103K	CHIP C	0.010UF	K	
C297			CC73GCH1H070D	CHIP C	7.0PF	D		C579			CC73GCH1H101J	CHIP C	100PF	J	
C501			CK73GB1H102K	CHIP C	1000PF	K		C580			CK73GB1C104K	CHIP C	0.10UF	K	
C502			CK73GB1C104K	CHIP C	0.10UF	K		C581			CK73GB1H102K	CHIP C	1000PF	K	
C503			CK73GB1H471K	CHIP C	470PF	K		C582			CK73GB1C473K	CHIP C	0.047UF	K	
C504			CK73GB1H103K	CHIP C	0.010UF	K		C583			C92-0560-05	CHIP-TAN	10UF	6.3WV	
C505			CK73GB1C104K	CHIP C	0.10UF	K		C584			CK73GB1H103K	CHIP C	0.010UF	K	
C506,507			CK73GB1H103K	CHIP C	0.010UF	K		C585			CC73GCH1H101J	CHIP C	100PF	J	
C508			CK73GB1H472K	CHIP C	4700PF	K		C587			CK73GB1H103K	CHIP C	0.010UF	K	
C509			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C589			C92-0606-05	CHIP-TAN	4.7UF	10WV	
C514			CC73GCH1H680J	CHIP C	68PF	J		C590			CK73GB1H102K	CHIP C	1000PF	K	
C515			CK73GB1H103K	CHIP C	0.010UF	K		C594			CK73GB1H102K	CHIP C	1000PF	K	
C516			CC73GCH1H270J	CHIP C	27PF	J		C596			CK73GB1H102K	CHIP C	1000PF	K	
C517			CK73GB1C683K	CHIP C	0.068UF	K		C597			CC73GCH1H101J	CHIP C	100PF	J	
C518			CC73GCH1H270J	CHIP C	27PF	J		C598			CK73GB1H102K	CHIP C	1000PF	K	
C519			CK73GB1H102K	CHIP C	1000PF	K		C599			CC73GCH1H101J	CHIP C	100PF	J	
C520			CK73GB1C104K	CHIP C	0.10UF	K		C600			CK73GB1H102K	CHIP C	1000PF	K	
C521			CK73GB1H102K	CHIP C	1000PF	K		C601,602			CC73GCH1H101J	CHIP C	100PF	J	
C522			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C603			CK73GB1H102K	CHIP C	1000PF	K	
C523			CC73GCH1H221J	CHIP C	220PF	J		C604-606			CC73GCH1H101J	CHIP C	100PF	J	
C524			CK73GB1H103K	CHIP C	0.010UF	K		C608-610			CC73GCH1H101J	CHIP C	100PF	J	
C525			CK73GB1E123K	CHIP C	0.012UF	K		C611,612			CK73GB1H471K	CHIP C	470PF	K	
C526			CK73GB1C683K	CHIP C	0.068UF	K		C613			CC73GCH1H101J	CHIP C	100PF	J	
C527			CK73GB1H222K	CHIP C	2200PF	K		C615			CK73GB1H471K	CHIP C	470PF	K	
C528			CK73GB1H103K	CHIP C	0.010UF	K		C616			CC73GCH1H101J	CHIP C	100PF	J	
C529			CK73GB1H272K	CHIP C	2700PF	K		C618			CK73GB1H102K	CHIP C	1000PF	K	
C530			CK73GB1H152K	CHIP C	1500PF	K		C620			CK73GB1H471K	CHIP C	470PF	K	
C531			CK73GB1H272K	CHIP C	2700PF	K		C621			CK73GB1H102K	CHIP C	1000PF	K	
C532,533			CK73GB1C104K	CHIP C	0.10UF	K		C623			CK73GB1H102K	CHIP C	1000PF	K	
C534,535			CK73GB1H103K	CHIP C	0.010UF			C626			CK73GB1C104K	CHIP C	0.10UF	K	
C536			CK73GB1C104K	CHIP C	0.10UF	K		C628		1	CK73GB1C104K	CHIP C	0.10UF	K	
C537			CK73GB0J105K	CHIP C	1.0UF	K		C629			CC73GCH1H470J	CHIP C	47PF	J	
C538			C92-0560-05	CHIP-TAN	10UF	6.3WV		C630			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C539			CK73GB1H103K	CHIP C	0.010UF	K		C631			CK73GB1H103K	CHIP C	0.010UF	K	
C540,541			CK73GB1C104K	CHIP C	0.10UF	K		C632			CK73FF1C105Z	CHIP C	1.0UF	Z	
C542			CC73GCH1H331J	CHIP C	330PF	J		C633		1	CK73GB1C104K	CHIP C	0.10UF	K	
C543			CK73GB1H102K	CHIP C	1000PF	K		C720			C92-0560-05	CHIP-TAN	10UF	6.3WV	
C544-546			CK73GB1H562J	CHIP C	5600PF	J		CNI				DINI ACCV			
C547			CC73GCH1H030C	CHIP C	3.0PF	С		CN1 CN2			E40-6047-05 E40-6021-05	PIN ASSY FLAT CABLE	CONNECTO)R	
C548-550			CK73GB1H272K	CHIP C	2700PF	K		CN3		1	E40-3247-05	PIN ASSY	301414E01C		
C551			CC73GCH1H151J	CHIP C	150PF	J		CN4			E40-5737-05	PIN ASSY			
C552			CC73GCH1H030C	CHIP C	3.0PF	C		CN5			E40-5738-05	PIN ASSY			
C552 C553			CK73GB1H102K	CHIP C	1000PF	K									
C554			CK73GB1H122K	CHIP C	1200PF	K		CN6 CN7			E40-5751-05 E40-3247-05	PIN ASSY PIN ASSY			
C555			C92-0560-05	CHIP-TAN	1200FF	6.3WV		CN7 CN8		1	E40-3247-05	PIN ASSY			
C556			CK73GB1C333K	CHIP C	0.033UF	0.3VVV K		CN501		1	E40-6021-05	FLAT CABLE	CUNNECTO	IR.	
C557			CK73GB1C333K	CHIP C	0.0330F 0.10UF	K		J1		1	E11-0442-05	3.5D PHONE		""	
C557			CC73GCH1H101J	CHIP C	100PF	J		101		1	L11-0442-03	J.JD I HONE	OMOR (JI')		
0000	1		00/30011111010	01 111 0	10011	J			1	1					

PARTS LIST / 零件表

Ref. No.	Address	New parts	Parts No.	Description	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descripti	on	Desti- nation
J501			E08-0877-05	MODULAR JACK		R15			RK73GB1J104J	CHIP R	100K J	1/16W	
					1	R16			RK73GB1J220J	CHIP R	22 J	1/16W	
F1			F53-0108-05	FUSE		R17			RK73GB1J154J	CHIP R	150K J	1/16W	
						R18			RK73GB1J103J	CHIP R	10K J	1/16W	
-			J31-0543-05	COLLAR		R19			RK73GB1J392J	CHIP R	3.9K J	1/16W	
CF1			L72-0959-05	CERAMIC FILTER		R20			RK73GB1J224J	CHIP R	220K J	1/16W	
CF2			L72-0973-05	CERAMIC FILTER	- 1	R21			RK73GB1J102J	CHIP R	1.0K J	1/16W	
					- 1	1				1			
L1			L40-1005-34	SMALL FIXED INDUCTOR (10UH))	1	R22			RK73GB1J474J	CHIP R	470K J	1/16W	
L2-4			L40-3381-86	SMALL FIXED INDUCTOR (0.33UH)	- 1	R23			RK73GB1J223J	CHIP R	22K J	1/16W	
L5			L34-4530-05	COIL		R24			RK73GB1J563J	CHIP R	56K J	1/16W	
L6			L40-8275-77	SMALL FIXED INDUCTOR (82NH)		R25			R92-1252-05	CHIP R	0 OHM		
L7			L40-5685-85	SMALL FIXED INDUCTOR (0.56UH)	1	R26			RK73GB1J104J	CHIP R	100K J	1/16W	
L8			L40-8285-85	SMALL FIXED INDUCTOR (0.82UH)	- 1	R29			R92-1252-05	CHIP R	0 OHM		
L9			L40-1575-77	SMALL FIXED INDUCTOR (15NH)	1	R30			RK73GB1J103J	CHIP R	10K J	1/16W	
L10			L40-1581-86	SMALL FIXED INDUCTOR (0.15UH)	1	R31			RK73GB1J152J	CHIP R	1.5K J	1/16W	
_10			1301-00	SWALL TIXED INDUCTOR (0.13011)		1101			11107301131323	Cim ii	1.510	1/ 10 V V	
L11			L40-3375-34	SMALL FIXED INDUCTOR (33NH)		R32			RK73GB1J103J	CHIP R	10K J	1/16W	
L12			L40-1575-34	SMALL FIXED INDUCTOR (15NH)	1	R33			R92-1252-05	CHIP R	0 OHM		
L13			L79-1776-05	HELICAL BLOCK		R34,35			RK73GB1J104J	CHIP R	100K J	1/16W	
L14			L40-4775-77	SMALL FIXED INDUCTOR (47NH)		R36			RK73GB1J223J	CHIP R	22K J	1/16W	
.15			L40-1085-77	SMALL FIXED INDUCTOR (100NH)		R37			RK73GB1J100J	CHIP R	10 J	1/16W	
16			140 2075 24	CMALL FIVED INIDITICTOD (20MILI)		D20 40			DV72CD1 1102 1	ח פוער)	101/ 1	1/16///	
.16			L40-3975-34	SMALL FIXED INDUCTOR (39NH)		R38-40			RK73GB1J103J	CHIP R	10K J	1/16W	
.17			L40-1875-77	SMALL FIXED INDUCTOR (18NH)	1	R41			RK73GB1J224J	CHIP R	220K J	1/16W	
.19			L40-8275-77	SMALL FIXED INDUCTOR (82NH)	1	R42			RK73GB1J473J	CHIP R	47K J	1/16W	
.20			L40-1085-77	SMALL FIXED INDUCTOR (100NH)	1	R43			RK73GB1J683J	CHIP R	68K J	1/16W	
.21			L34-4478-05	AIR-CORE COIL		R44			RK73GB1J153J	CHIP R	15K J	1/16W	
22			L79-1776-05	HELICAL BLOCK		R46			RK73GB1J223J	CHIP R	22K J	1/16W	
					1	R47				1			
24			L92-0179-05	FERRITE CHIP	1	1			RK73GB1J101J	CHIP R	100 J	1/16W	
26			L40-1075-34	SMALL FIXED INDUCTOR (10NH)	1	R48			RK73GB1J184J	CHIP R	180K J	1/16W	
.29			L34-1185-05	AIR-CORE COIL	1	R49			RK73GB1J152J	CHIP R	1.5K J	1/16W	
_30,31			L34-1039-05	AIR-CORE COIL		R50			RK73GB1J473J	CHIP R	47K J	1/16W	
L32			L34-4478-05	AIR-CORE COIL		R51-53			RK73GB1J102J	CHIP R	1.0K J	1/16W	
L33			L92-0179-05	FERRITE CHIP	1	R54,55			R92-1252-05	CHIP R	0 OHM	1/10**	
					1							4 (4 0) 4 (
L36			L40-3375-34	SMALL FIXED INDUCTOR (33NH)	- 1	R56			RK73GB1J100J	CHIP R	10 J	1/16W	
L37			L40-6865-77	SMALL FIXED INDUCTOR (6.8NH)	- 1	R57			RK73GB1J471J	CHIP R	470 J	1/16W	
L501			L92-0138-05	FERRITE CHIP		R58			RK73GB1J332J	CHIP R	3.3K J	1/16W	
L503,504			L92-0138-05	FERRITE CHIP		R59			RK73GB1J472J	CHIP R	4.7K J	1/16W	
L510			L92-0138-05	FERRITE CHIP	1	R60			RK73GB1J334J	CHIP R	330K J	1/16W	
					1					1		•	
X1			L77-1826-05	TCXO (16.8M)	- 1	R61			RK73GB1J102J	CHIP R	1.0K J	1/16W	
K501			L77-1708-05	CRYSTAL RESONATOR (3.579545MHZ)	- 1	R62			RK73GB1J224J	CHIP R	220K J	1/16W	
< 502			L78-0462-05	RESONATOR (9.8304MHZ)		R63			RK73GB1J474J	CHIP R	470K J	1/16W	
KF1			L71-0551-25	MCF (49.95MHZ)		R64,65			RK73GB1J223J	CHIP R	22K J	1/16W	
						R66			RK73GB1J101J	CHIP R	100 J	1/16W	
P501-505			R90-0741-05	MULTIPLE RESISTOR		R67			RK73GB1J472J	CHIP R		1/16W	
						1				1			
P508-514			R90-0741-05	MULTIPLE RESISTOR		R68			RK73GB1J182J	CHIP R	1.8K J	1/16W	
P516-524			R90-0741-05	MULTIPLE RESISTOR		R69			R92-1252-05	CHIP R	0 OHM		
P526,527			R90-0741-05	MULTIPLE RESISTOR		D76 -:			DIVERSE :	01	4011		
P529-536			R90-0741-05	MULTIPLE RESISTOR		R70,71			RK73GB1J103J	CHIP R	10K J	1/16W	
						R72			R92-1252-05	CHIP R	0 OHM		
P538			R90-0741-05	MULTIPLE RESISTOR		R73			RK73GB1J223J	CHIP R	22K J	1/16W	
P539			R90-0724-05	MULTI-COMP 1K X4		R75			R92-1252-05	CHIP R	0 OHM		
11			R92-1252-05	CHIP R 0 OHM		R76			RK73GB1J223J	CHIP R	22K J	1/16W	
2			RK73GB1J102J	CHIP R 1.0K J 1/16W		1							
13			R92-1252-05	CHIP R 0 OHM		R77			RK73GB1J224J	CHIP R	220K J	1/16W	
						R78			RK73GB1J104J	CHIP R	100K J	1/16W	
4			RK73GB1J333J	CHIP R 33K J 1/16W		R79			RK73GB1J102J	CHIP R	1.0K J	1/16W	
16			R92-1252-05	CHIP R 0 OHM		R80			RK73GB1J471J	CHIP R	470 J	1/16W	
										1			
17,8			RK73GB1J102J	CHIP R 1.0K J 1/16W		R81			RK73GB1J101J	CHIP R	100 J	1/16W	
9,10			R92-1252-05	CHIP R 0 OHM		I							
11			RK73GB1J102J	CHIP R 1.0K J 1/16W		R82			RK73GB1J102J	CHIP R	1.0K J	1/16W	
						R83			RK73GB1J684J	CHIP R	680K J	1/16W	
12			RK73GB1J104J	CHIP R 100K J 1/16W		R84			R92-1252-05	CHIP R	0 OHM		
			RK73GB1J472J	CHIP R 4.7K J 1/16W		R85,86			RK73GB1J122J	CHIP R	1.2K J	1/16W	
13		1		•			1	1		1			1
13 14			RK73GB1J474J	CHIP R 470K J 1/16W		R87	1		RK73GB1J102J	CHIP R	1.0K J	1/16W	

PARTS LIST / 零件表

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Ref. No.	Address	New parts	Parts No.		Descriptio	n	Desti- nation	Ref. No.	Address	New parts	Parts No.		Description	on	Desti- nation
R88			RK73GB1J271J	CHIP R	270 J	1/16W		R163			R92-0670-05	CHIP R	0 OHM		
R89			RK73GB1J102J	CHIP R	1.0K J	1/16W		R164			R92-1215-05	CHIP R	470 J	1/2W	
R90			RK73GB1J104J	CHIP R	100K J	1/16W		R166			RK73GB1J151J	CHIP R	150 J	1/16W	
R91			RK73GB1J823J	CHIP R	82K J	1/16W		R169			RK73GB1J103J	CHIP R	10K J	1/16W	
R92			RK73GB1J822J	CHIP R	8.2K J	1/16W		R170			RK73FB2A222J	CHIP R	2.2K J	1/10W	
R93			RK73GB1J152J	CHIP R	1.5K J	1/16W		R171			RK73GB1J153J	CHIP R	15K J	1/16W	
R94				1				R172				CHIP R			
			RK73GB1J392J	CHIP R	3.9K J	1/16W		1			RK73GB1J683J	1	68K J	1/16W	
R95,96			RK73GB1J103J	CHIP R	10K J	1/16W		R173			RK73GB1J472J	CHIP R	4.7K J	1/16W	
R97,98			RK73GB1J101J	CHIP R	100 J	1/16W		R174			RK73GB1J103J	CHIP R	10K J	1/16W	
R99			RK73GB1J221J	CHIP R	220 J	1/16W		R175			RK73GB1J682J	CHIP R	6.8K J	1/16W	
R100,101			RK73GB1J222J	CHIP R	2.2K J	1/16W		R176			RK73GB1J103J	CHIP R	10K J	1/16W	
R103			RK73GB1J472J	CHIP R	4.7K J	1/16W		R177			R92-1261-05	CHIP R	150 J	1/2W	
R104			RK73GB1J682J	CHIP R	6.8K J	1/16W		R178			RK73GB1J822J	CHIP R	8.2K J	1/16W	
R105			RK73GB1J101J	CHIP R	100 J	1/16W		R179			RK73GB1J153J	CHIP R	15K J	1/16W	
R106			RK73GB1J102J	CHIP R	1.0K J	1/16W		R180,181			RK73GB1J562J	CHIP R	5.6K J	1/16W	
R107			RK73GB1J473J	CHIP R	47K J	1/16W		R182			R92-0670-05	CHIP R	0 OHM		
R108			RK73GB1J152J	CHIP R	1.5K J	1/16W		R184			R92-1252-05	CHIP R	0 OHM		
R109			RK73GB1J103J	CHIP R	10K J	1/16W		R185			RK73GB1J473J	CHIP R	47K J	1/16W	
R110			RK73GB1J470J	CHIP R	47 J	1/16W		R186			R92-1252-05	CHIP R	0 OHM		
R111			RK73GB1J101J	CHIP R	100 J	1/16W		R187			RK73GB1J220J	CHIP R	22 J	1/16W	
R112			RK73GB1J471J	CHIP R	470 J	1/16W		R188			RK73GB1J102J	CHIP R	1.0K J	1/16W	
R113			RK73GB1J100J	CHIP R	10 J	1/16W		R189			RK73GB1J101J	CHIP R	100 J	1/16W	
R114			RK73GB1J472J	CHIP R	4.7K J	1/16W		R190			RK73GB1J473J	CHIP R	47K J	1/16W	
R115			RK73GB1J223J	CHIP R	22K J	1/16W		R192			RK73GB1J103J	CHIP R	10K J	1/16W	
R116			RK73GB1J473J	CHIP R	47K J	1/16W		R193			RK73GB1J102J	CHIP R	1.0K J	1/16W	
D117			DV70CD1 1221 I	CLUID D	220	1 /10\\/		D100			DV70CD1 1222 I	CLUDD	2.21/	1/10\\/	
R117			RK73GB1J221J	CHIP R	220 J	1/16W		R196			RK73GB1J332J	CHIP R	3.3K J	1/16W	
R118			RK73GB1J681J	CHIP R	680 J	1/16W		R197			R92-1252-05	CHIP R	0 OHM	4 (4 0) 4 (
R119			RK73GB1J222J	CHIP R	2.2K J	1/16W		R198			RK73GB1J104J	CHIP R	100K J	1/16W	
R120 R121			R92-1252-05 RK73GB1J100J	CHIP R CHIP R	0 OHM 10 J	1/16W		R200-202 R207			R92-1252-05 R92-1252-05	CHIP R CHIP R	0 OHM 0 OHM		
R122			R92-1215-05	CHIP R	470 J	1/2W		R208			R92-0670-05	CHIP R	0 OHM		
R123			RK73GB1J472J	CHIP R	4.7K J	1/16W		R210			R92-1252-05	CHIP R	0 OHM		
R124			RK73GB1J103J	CHIP R	10K J	1/16W		R219			R92-1252-05	CHIP R	0 OHM		
R125			RK73GB1J333J	CHIP R	33K J	1/16W		R221			R92-1252-05	CHIP R	0 OHM		
R126			RK73GB1J471J	CHIP R	470 J	1/16W		R228,229			R92-0670-05	CHIP R	0 OHM		
R127,128			RK73GB1J104J	CHIP R	100K J	1/16W		R231			R92-0670-05	CHIP R	0 OHM		
R129			RK73GB1J331J	CHIP R	330 J	1/16W		R501			RK73GB1J473J	CHIP R	47K J	1/16W	
R130			RK73GB1J152J	CHIP R	1.5K J	1/16W		R502			RK73GB1J472J	CHIP R	4.7K J	1/16W	
R131			RK73GB1J681J	CHIP R	680 J	1/16W		R503			RK73GB1J102J	CHIP R	1.0K J	1/16W	
R132			R92-0670-05	CHIP R	0 OHM			R504-507			RK73GB1J473J	CHIP R	47K J	1/16W	
R133-136			R92-1252-05	CHIP R	0 OHM			R508			RK73GB1J102J	CHIP R	1.0K J	1/16W	
R138			RK73GB1J102J	CHIP R	1.0K J	1/16W		R509,510			R92-1252-05	CHIP R	0 OHM		
R140			RK73FB2A2R2J	CHIP R	2.2 J	1/10W		R511			RK73GB1J473J	CHIP R	47K J	1/16W	
R141			R92-0685-05	CHIP R	22 J	1/2W		R512			RK73GB1J104J	CHIP R	100K J	1/16W	
R142			RK73GB1J473J	CHIP R	47K J	1/16W		R513			RK73GB1J223J	CHIP R	22K J	1/16W	
R143			RK73GB1J101J	CHIP R	100 J	1/16W		R514			RK73GB1J473J	CHIP R	47K J	1/16W	
R144			RK73GB1J222J	CHIP R	2.2K J	1/16W		R515,516			RK73GB1J223J	CHIP R	22K J	1/16W	
R145,146			RK73GB1J473J	CHIP R	47K J	1/16W		R517			RK73GB1J473J	CHIP R	47K J	1/16W	
R147			RK73GB1J333J	CHIP R	33K J	1/16W		R518			RK73GB1J472J	CHIP R	4.7K J	1/16W	
R148			RK73GB1J104J	CHIP R	100K J	1/16W		R519			RK73GB1J103J	CHIP R	10K J	1/16W	
R149			RK73GB1J101J	CHIP R	100 J	1/16W		R520-523			RK73GB1J102J	CHIP R	1.0K J	1/16W	
R150			RK73GB1J104J	CHIP R	100 J	1/16W		R526			RK73GB1J154J	CHIP R	150K J	1/16W	
R152			R92-1252-05	CHIP R	0 OHM	1/1000		R527			R92-1252-05	CHIP R	0 OHM	1/1000	
R153			R92-0670-05	CHIP R	0 OHM			R528			RK73GB1J472J	CHIP R	4.7K J	1/16W	
R154			RK73GB1J152J	CHIP R	1.5K J	1/16W		R529			RK73GB1J472J	CHIP R	4.7K J 150K J	1/16W	
R155			RK73GB1J103J	CHIP R	10K J	1/16W		R530			RK73GB1J473J	CHIP R	47K J	1/16W	
R156			RK73FB2A5R6J	CHIP R	10K J 5.6 J	1/16VV 1/10W		R530			RK73GB1J473J	CHIP R	47K J 390K J	1/16W	
R158			R92-0670-05	CHIP R	5.6 J 0 OHM	1/1000		R532			RK73GB1J394J				
			RK73GB1J473J	1		1/16\\\		R532				CHIP R	10K J	1/16W	
R159				CHIP R	47K J	1/16W		R533			RK73GB1J104J	CHIP R	100K J	1/16W	
R161,162	1		RK73GB1J104J	CHIP R	100K J	1/16W		ทมง4			RK73GB1J823J	CHIP R	82K J	1/16W	1

PARTS LIST / 零件表

Ref. No.	Address	New parts	Parts No.		Description	on	Desti- nation	Ref. No.	Address	New parts		Description	Desti- nation
R535		Parts	RK73GB1J332J	CHIP R	3.3K J	1/16W		R602	1	Faits	RK73GB1J473J	CHIP R 47K J 1/16W	
R536			RK73GB1J153J	CHIP R	15K J	1/16W		R603			RK73GB1J101J	CHIP R 100 J 1/16W	
R537			RK73GB1J105J	CHIP R	1.0M J	1/16W	 	R604			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R538			RK73GB1J103J	CHIP R	10K J	1/16W		R605			RK73GB1J332J	CHIP R 3.3K J 1/16W	
R539			R92-1252-05	CHIP R	0 OHM	1/1000		R606			RK73GB1J102J	CHIP R 1.0K J 1/16W	
11000			1102 1202 00	01111	O OTHER			11000			111170000101020	1.000	
R540			RK73GB1J223J	CHIP R	22K J	1/16W		R607			RK73GB1J101J	CHIP R 100 J 1/16W	
R541			RK73GB1J184J	CHIP R	180K J	1/16W		R608			RK73GB1J122J	CHIP R 1.2K J 1/16W	
R542			RK73GB1J102J	CHIP R	1.0K J	1/16W		R610,611			RK73GB1J473J	CHIP R 47K J 1/16W	
R543			RK73GB1J184J	CHIP R	180K J	1/16W		R612			R92-1201-05	CHIP R 220 J 1/2W	
R544			RK73GB1J103J	CHIP R	10K J	1/16W		R613			RK73GB1J103J	CHIP R 10K J 1/16W	
R545			RK73GB1J472J	CHIP R	4.7K J	1/16W		R614,615			R92-1252-05	CHIP R 0 OHM	
												l .	
R546			RN73GH1J913D	CHIP R	91K D	1/16W		R616			RK73GB1J474J	CHIP R 470K J 1/16W	
R547			RK73GB1J103J	CHIP R	10K J	1/16W		R617			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R548			RN73GH1J333D	CHIP R	33K D	1/16W		R618			RK73GB1J683J	CHIP R 68K J 1/16W	
R549			RN73GH1J913D	CHIP R	91K D	1/16W		R619			RK73GB1J104J	CHIP R 100K J 1/16W	
R550			RN73GH1J683D	CHIP R	68K D	1/16W		R620,621			RK73GB1J103J	CHIPR 10K J 1/16W	
R551,552			RK73GB1J223J	CHIP R	22K J	1/16W		R622	1		RK73GB1J473J	CHIPR 47K J 1/16W	
R553			RK73GB1J105J	CHIP R	1.0M J	1/16W		R630	1		R92-1252-05	CHIP R 0 OHM	
R554			RN73GH1J913D	CHIP R	91K D	1/16W	 	R701			RK73GB1J473J	CHIP R 47K J 1/16W	
R555,556			RK73GB1J104J	CHIP R	100K J	1/16W		R704			RK73GB1J223J	CHIP R 22K J 1/16W	
R557			RN73GH1J274D	CHIP R	270K D	1/16W		R720			R92-1252-05	CHIP R 0 OHM	
R558			R92-1252-05	CHIP R	0 OHM		 	R722			R92-1252-05	CHIP R 0 OHM	
R559			RK73GB1J333J	CHIP R	33K J	1/16W		R723			RK73GB1J273J	CHIP R 27K J 1/16W	
R560			RK73GB1J474J	CHIP R	470K J	1/16W							
R561			RK73GB1J333J	CHIP R	33K J	1/16W		D1		*	DA204U	DIODE	
								D1			HSB123	DIODE	
R562			R92-1252-05	CHIP R	0 OHM			D2			02DZ20(Y,Z)	ZENER DIODE	
R563			RK73GB1J473J	CHIP R	47K J	1/16W		D3-5		*	DA204U	DIODE	
R564			RK73GB1J223J	CHIP R	22K J	1/16W		D3-5			HSB123	DIODE	
R565			R92-1252-05	CHIP R	0 OHM								
R566			RK73GB1J563J	CHIP R	56K J	1/16W		D8			DAN235K	DIODE	
						•		D9			1SS355	DIODE	
R567			RK73GB1J334J	CHIP R	330K J	1/16W		D10			DAN235K	DIODE	
R568			RK73GB1J473J	CHIP R	47K J	1/16W		D11			MA742	DIODE	
R569			RK73GB1J473J	CHIP R		1/16W		D14			1SS355	DIODE	
								D14			133333	DIODE	
R570			RK73GB1J155J	CHIP R	1.5M J	1/16W		D. F			DANIGOGI	DIODE	
R571			RN73GH1J682D	CHIP R	6.8K D	1/16W		D15			DAN202K	DIODE	
DE70			DICTOODA LATO I	OLUB B	471/	4 (4 0) 4 (D16			DAN235E	DIODE	
R572			RK73GB1J473J	CHIP R	47K J	1/16W		D18			KV1848K	VARIABLE CAPACITANCE DIODE	
R573			RK73GB1J474J	CHIP R	470K J	1/16W		D19,20			1SS355	DIODE	
R574			RN73GH1J683D	CHIP R	68K D	1/16W		D21			02DZ18(X,Y)	ZENER DIODE	
R575			RK73GB1J101J	CHIP R	100 J	1/16W			1				
R576			RK73GB1J224J	CHIP R	220K J	1/16W		D23			KV1848K	VARIABLE CAPACITANCE DIODE	
DEST			DICTOOR A STATE OF	0.115.5	101/			D24			02DZ15(X,Y)	ZENER DIODE	
R577			RK73GB1J103J	CHIP R	10K J	1/16W		D25	1		22ZR-10D	SURGE ABSORBER	
R578			RN73GH1J682D	CHIP R	6.8K D	1/16W		D27	1		1SS355	DIODE	
R579			RK73GB1J223J	CHIP R	22K J	1/16W		D28	1		KV1848K	VARIABLE CAPACITANCE DIODE	
R580			R92-1252-05	CHIP R	0 OHM				1				
R581			RK73GB1J104J	CHIP R	100K J	1/16W		D29			DSM3MA1	DIODE	
R583			RK73GB1J470J	CHIP R	47 J	1/16W		D30 D31			MA4PH633 KV1848K	DIODE VARIABLE CAPACITANCE DIODE	
									1			l .	
R584			RK73GB1J220J	CHIP R	22 J	1/16W	 	D33,34			XB15A709	DIODE	
R585			R92-1252-05	CHIP R	0 OHM		 	D35,36			MA742	DIODE	
R586			RK73GB1J473J	CHIP R	47K J	1/16W		1	1		l		
R587			R92-1252-05	CHIP R	0 OHM			D39 D40			UDZ4.7(B) MA742	ZENER DIODE DIODE	
R588			RK73GB1J103J	CHIP R	10K J	1/16W		D40			1SS355	DIODE	
R590			RK73GB1J333J	CHIP R	33K J	1/16W		D42	1		HZU5ALL	DIODE	
R591			R92-1252-05	CHIP R	0 OHM	.,		D501-504	1		MA2S111	DIODE	
R592			RK73GB1J103J	CHIP R	10K J	1/16W	 	5001-004			IVIALUTTI	I SIGNE	
R593			RK73GB1J103J	CHIP R	180 J	1/16W		D506			MA2S111	DIODE	
			223.3.310		0	.,		D508			MA742	DIODE	
R594			RK73GB1J392J	CHIP R	3.9K J	1/16W		D523			DAN202U	DIODE	
R595			RK73GB1J181J	CHIP R	180 J	1/16W		D524,525		*	DA204U	DIODE	
R598			RK73GB1J473J	CHIP R	47K J	1/16W		D524,525	1		HSB123	DIODE	
R599			RK73GB1J102J	CHIP R	1.0K J	1/16W		3021,020					
R600			R92-1252-05	CHIP R	0 OHM	.,		D526			1812L075PR	VARISTOR	
	1	l	52 1202 00	J 11	5 51 1141			12320	1		.0.22370111	1	

PARTS LIST / 零件表

TX-RX UNIT (X57-5963-09) PLL/VCO (X58-4670-16)

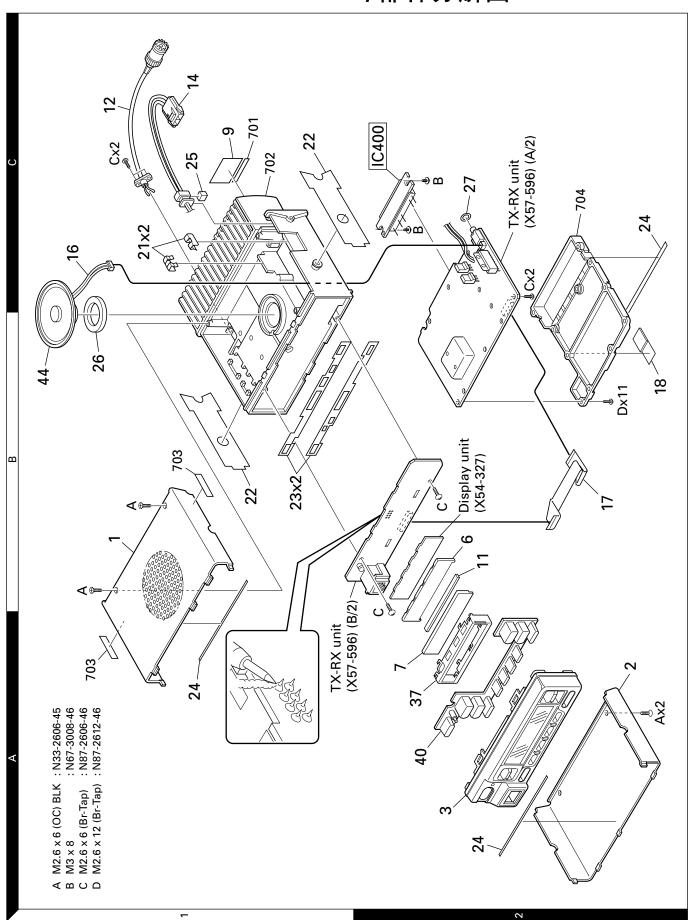
Mate March March Mate March Mate Mate											PLL/VCO (X58-	4670-16)
1927.528 HS9122 DIOCE DIOCE DISCHARD DIOCE DIOCE	Ref. No.	Address		Parts No.	Description		Ref. No.	Address		Parts No.	Description	
DAMP			*								· = ·	
					l .							
Description Company												1 I
Table	IC3			MB15A02	IC (PLL)		Ω501			2SC4619	TRANSISTOR	
MARCHEST Collect And Collect Process Colle				NJM4558M	IC (OP AMP X2)		0502,503			DTC114EE	DIGITAL TRANSISTOR	
December December				TA31136FN	IC (FM IF DETECTOR)		Q504			2SC4617(S)	TRANSISTOR	
					IC (8bit D/A CONVERTER)							
C10					, ,							
C102	IC9			BU4094BCF	IC (8-STAGE SHIFT/STORE REGISTER)		Ω508			2SC4617(S)	TRANSISTOR	
C12	IC10			NJM78L05UA	IC (VOLTAGE REGULATOR/ +5V)		Q509			DTC363EU	DIGITAL TRANSISTOR	
C144				AN8009M	IC (REGULATOR)		TH1			157-153-65001	THERMISTOR	1 I
TOTAL TOTAL SIGNAM COME NORMY TOTAL SIGNAM COME NORMY TOTAL SIGNAM COME NORM COME NORM					,							
C15												1 I
ICLIS TATASSIFF IC. (C. PAMP) C. PAMP C. PAMP	IC14			TC4013BF(N)	IC (MEMORY)						VEO 4670 16\	1
ISSN A728020-90T1 CEPLASH ROM C105 C07536CHH1803 CHIP C BBF D C105 C7536CHH1803 CHIP C BBF D C105 C7536CHH1804 CHIP C BBF D C105 C7536CHH1804 CHIP C BBF D C7536CHH1805 CHIP C BBF D C7536C				TA75S01F	IC (OP AMP)				_	1	T	
		2C			, ,							1 I
ESSIGN REPAY C. (C. (FEGUATOR) C. (108 C. 2075 CHI HARDER C. (C. 2007 R.)												
C108					II.							1 I
INCOS	IC503			RH5VL42C	IC (REGULATOR)							
	IC505			AT2408N10SI2.5	IC (8kbit SERIAL EEPROM)		C108			CC/3GCH1HR/5B	CHIP C 0.75PF B	
MANASON							C110			CC73GCH1H040B	CHIP C 4.0PF B	
	IC507			NJM2904V	IC (APC)		C111			CC73GCH1H060D	CHIP C 6.0PF D	
	IC508			TC35453F	IC (AUDIO PROCESSOR)		C112			CC73GCH1H1R5B	CHIP C 1.5PF B	
	IC509			BU4066BCFV	IC (ANALOG SWITCH X4)		C113			CC73GCH1H020B	CHIP C 2.0PF B	
IGS11	ICE10			DI MODARCEV	IC (Obit CHIET/CTODE DECISTED)		C114			CC73GCH1H050B	CHIP C 5.0PF B	
IGS12							C115			CC72CCU1U000D	CHIP C 9 OPE D	
IC514					,							
C514					1 '							
DTD114EK DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR C121 CC73GCH1H050B CHIP C 5.0PF B C73GBH1471K CHIP C 470PF K C73GBH1471K CHIP C 470PF												
C121												
DTA114EKA DIGITAL TRANSISTOR C122 C736CH1H0R5B CHIP C JSPF B C124 C736CH1H0R5B CHIP C JSPF B C736CH1H0R5B CHIP C JSPF CHIP C JSPF C736CH1H0R5B CHIP C JSPF CHI					II.		1					
Q4-6					II.							
O7					II.							
C125					l .							1 I
OB	U/			2364649(N,F)	INANSISTON							1 I
Q9 2 SC4215(Y) ZSC2412K TRANSISTOR C126 C127 CK73GB1H471K CHIP C 470°F K CDF B B 011 2 SA1832(GR) TRANSISTOR TC106 C05-0384-05 CCF3GCH1H050B CHIP C 5.0°F B B CCF3GCH1H050B CHIP C 5.0°F B CF3GB CHIP C 5.0°F B CF3G	08			2SC2412K	TRANSISTOR		0123			OK/3dB111102K	O'III O TOOOTT K	1 I
010					II.		C126			CK73GB1H471K	CHIP C 470PF K	
C11					l .							
CN101					II.		TC106					1 I
O14	Q12			2SC4738(GR)	TRANSISTOR		TC109			C05-0384-05	CERAMIC TRIMMER CAP (10P/8)	
O15	Q13			2SC4649(N,P)	TRANSISTOR		CN101			E40-6019-05	PIN ASSY	
DTC114EKA DIGITAL TRANSISTOR L101-104 L40-1595-34 SMALL FIXED INDUCTOR (1.5UH) L105 L40-3975-34 SMALL FIXED INDUCTOR (39NH) L106 L40-2775-34 SMALL FIXED INDUCTOR (39NH) L106 L40-2775-34 SMALL FIXED INDUCTOR (39NH) L107,108 L40-1098-76 SMALL FIXED INDUCTOR (27NH) DTC114EKA DIGITAL TRANSISTOR L107,108 L40-1098-76 SMALL FIXED INDUCTOR (1UH) L40-1595-34 SMALL FIXED					II.		 _			F10-2279-04	SHIELDING CASE	
DTC363EU DIGITAL TRANSISTOR L101-104 L40-1595-34 SMALL FIXED INDUCTOR (1.5UH)					II.		1				1	
D18				DTC363EU	DIGITAL TRANSISTOR		L101-104			L40-1595-34	SMALL FIXED INDUCTOR (1.5UH)	
DTC114EKA DIGITAL TRANSISTOR DTC114EKA DTC114E							L105					
DTA114EKA DIGITAL TRANSISTOR DIGITAL TRANSIST				2SA1745(6,7)	TRANSISTOR		L106			L40-2775-34	SMALL FIXED INDUCTOR (27NH)	
O21					DIGITAL TRANSISTOR						SMALL FIXED INDUCTOR (1UH)	
Color							L109,110			L40-1595-34	SMALL FIXED INDUCTOR (1.5UH)	
Column							1					
023 2SA1641(S,T) TRANSISTOR R101,102 RK73GB1J101J CHIP R 100 J 1/16W 024 2SC3357 TRANSISTOR R103 RK73GB1J102J CHIP R 1.0K J 1/16W 026 DTA114EKA DIGITAL TRANSISTOR R104 RK73GB1J470J CHIP R 47 J 1/16W 027 2SC2954 TRANSISTOR R105 RK73GB1J470J CHIP R 150K J 1/16W 028 2SB1132(0,R) TRANSISTOR R106-110 RK73GB1J470J CHIP R 47 J 1/16W 029 DTC114EKA DIGITAL TRANSISTOR R107-110 RK73GB1J103J CHIP R 10K J 1/16W 031 2SC2412K TRANSISTOR R111 RK73GB1J31J CHIP R 330 J 1/16W 032 2SB1565(E,F) TRANSISTOR R112 RK73GB1J181J CHIP R 180 J 1/16W	Q22			2SC4093	TRANSISTOR							
025 2SC3357 TRANSISTOR R103 RK73GB1J102J CHIP R 1.0K J 1/16W 026 DTA114EKA DIGITAL TRANSISTOR R104 RK73GB1J470J CHIP R 47 J 1/16W 027 2SC2954 TRANSISTOR R105 RK73GB1J470J CHIP R 47 J 1/16W 028 2SB1132(Q,R) TRANSISTOR R107-110 RK73GB1J470J CHIP R 47 J 1/16W 029 DTC114EKA DIGITAL TRANSISTOR R107-110 RK73GB1J103J CHIP R 10K J 1/16W 031 2SC2412K TRANSISTOR R111 RK73GB1J331J CHIP R 330 J 1/16W 032 2SB1565(E,F) TRANSISTOR R112 RK73GB1J181J CHIP R 10K J 1/16W												
026 DTA114EKA DIGITAL TRANSISTOR R104 RK73GB1J470J CHIP R 47 J 1/16W 027 2SC2954 TRANSISTOR R105 RK73GB1J154J CHIP R 47 J 1/16W 028 2SB1132(Q,R) TRANSISTOR R106 RK73GB1J470J CHIP R 47 J 1/16W 029 DTC114EKA DIGITAL TRANSISTOR R107-110 RK73GB1J103J CHIP R 10K J 1/16W 031 2SC2412K TRANSISTOR R111 RK73GB1J331J CHIP R 330 J 1/16W 032 2SB1565(E,F) TRANSISTOR R112 RK73GB1J181J CHIP R 10K J 1/16W					l .							
027 2SC2954 TRANSISTOR R105 R106 RK73GB1J154J RK73GB1J154J RK73GB1J470J CHIP R 47 J 1/16W RK73GB1J470J RK73GB1J470J CHIP R 47 J 1/16W RK73GB1J470J RK73GB1J470J CHIP R 47 J 1/16W RK73GB1J470J RK73					II.				1		· ·	
READ					II.							
028 2SB1132(0,R) TRANSISTOR R107-110 RK73GB1J103J CHIP R 10K 1/16W 029 2SC2412K TRANSISTOR R111 RK73GB1J313J CHIP R 330 J 1/16W 032 2SB1565(E,F) TRANSISTOR R112 RK73GB1J181J CHIP R 180 J 1/16W	U2/			2SC2954	THANSISTOR							
Q31 2SC2412K TRANSISTOR R111 RK73GB1J331J CHIP R 330 J 1/16W Q32 2SB1565(E,F) TRANSISTOR R112 RK73GB1J181J CHIP R 180 J 1/16W				2SB1132(Q,R)	TRANSISTOR		11100			IIK/SUBIJ4/UJ		
032 2SB1565(E,F) TRANSISTOR R112 RK73GB1J181J CHIP R 180 J 1/16W	029			DTC114EKA	DIGITAL TRANSISTOR		R107-110			RK73GB1J103J	CHIP R 10K J 1/16W	
					II.							
Q33 DTC114EKA DIGITAL TRANSISTOR R113 RK73GB1J221J CHIP R 220 J 1/16W					II.							
, , , , , , , , , , , , , , , , , , ,	U33			DIC114EKA	DIGITAL TRANSISTOR		R113			HK73GB1J221J	CHIP R 220 J 1/16W	

PARTS LIST / 零件表

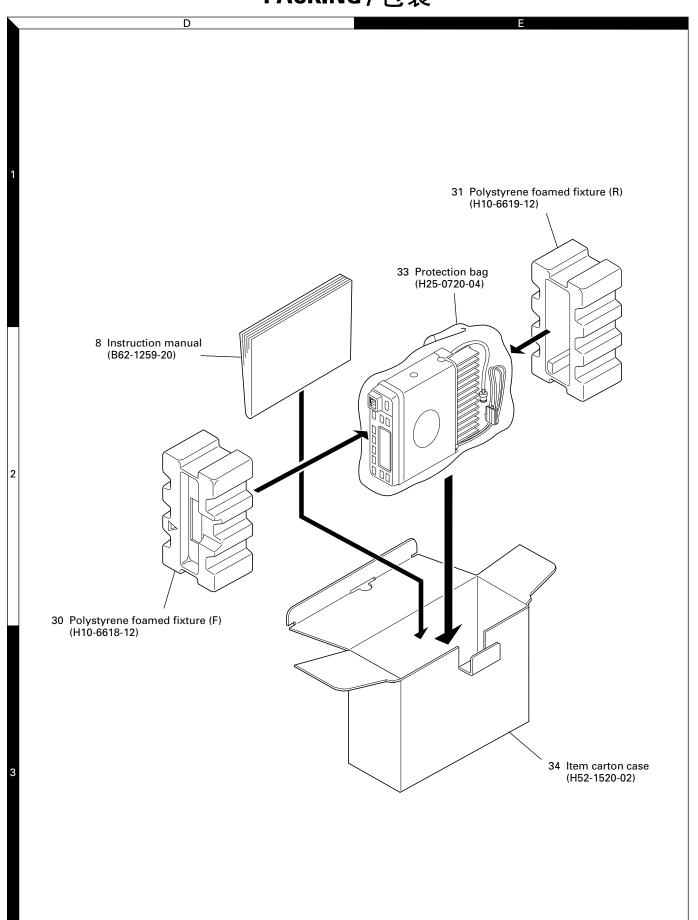
PLL/VCO (X58-4670-16)

PLL/VCO				1	Desti-			Now			Desti-
Ref. No.	Address	parts	Parts No.	Description	nation	Ref. No.	Address	New parts	Parts No.	Description	nation
R114 R115 R116 R117			RK73GB1J470J RK73GB1J103J RK73GB1J392J RK73GB1J101J	CHIP R 47 J 1/16W CHIP R 10K J 1/16W CHIP R 3.9K J 1/16W CHIP R 100 J 1/16W							
D101-104 D105 Q101 Q102 Q103			1SV283 1SV214 2SK508NV(K52) DTC114EUA 2SK508NV(K52)	VARIABLE CAPACITANCE DIODE VARIABLE CAPACITANCE DIODE FET DIGITAL TRANSISTOR FET							
Q104,105 Q106			2SC4081 2SC4226(R24)	TRANSISTOR TRANSISTOR							

EXPLODED VIEW/部件分解图



PACKING / 包装



ADJUSTMENT / 调整

Test Mode

■ Test Mode Operating Features

This transceiver has a test mode. *To enter test mode, press [SCN] key and turn power on. Hold [SCN] key until test channel No. and test signalling No. appears on LCD.* Test mode can be inhibited by programming. To exit test mode, switch the power on again. The following functions are available in test mode.

Controls

[PTT] Used when making a transmission.

[MON] Monitor on and off. [SCN] Sets to the tuning mode.

[A] Function on.

[D/A] RF power high and low.
 [▼] Changes signalling.
 [▲] Changes wide and narrow

[CH▲/✔] Changes channel. [Volume ♠/✔] Volume up/down.

LCD indicator

"SCN" Unused.

"AUX" Lights at RF power low.
"MON" Lights at monitor on.
"Right side dot" Lights at narrow.

• LED indicator

Red LED Lights during transmission.

Green LED Lights when there is a carrier.

■ Frequency and Signalling

The set has been adjusted for the frequencies shown in the following table. When required, re-adjust them following the adjustment procedure to obtain the frequencies you want in actual operation.

• Frequency (MHz)

Channel No.	C6					
	RX	TX				
1	370.050	370.100				
2	350.050	350.100				
3	389.950	389.900				
4	370.000	370.000				
5	370.200	370.200				
6	370.400	370.400				
7~16	-	-				

测试模式

■ 测试模式操作功能

本车台机具有测试模式。*要进入测试模式,按下[SCN]键* 并接通电源。按住[SCN]键直到测试信道

*号码和测试信令号码出现在LCD上为止。*测试模式可以通过编程被禁止。要退出测试模式,再一次开启电源。下述功能在测试模式中有效。

● 控制

[PTT]	进行发射时使用。
[MON]	监视器开启和关闭。
[SCN]	设定到调整模式。
[A]	开启功能。
[D/A]	射频高和低功率。
[▼]	改变信令。
[🛕]	改变宽带和窄带。
[信道 人/~]	改变信道。
[音量人/~]	音量高/低。

● LCD指示器

"SNC" 不使用。

 "AUX"
 低发射功率时显示。

 "MON"
 开启监视器时显示。

"右边的句点" 窄时燃亮。

LED指示器

红色LED 发射过程中燃亮。 绿色LED 有载波时燃亮。

■ 频率和信令

为下表所列的频率调整设定。需要时,按照调整步骤重 新调整以获得用户在实际操作中想要的频率。

● 频率(MHz)

信道号码	C	6			
	接收频率	发射频率			
1	370. 050	370. 100			
2	350. 050	350. 100			
3	389. 950	389. 900			
4	370.000	370.000			
5	370. 200	370. 200			
6	370. 400	370. 400			
7~16	-	-			

ADJUSTMENT / 调整

Signalling

Signalling No.	RX	TX
1	None	None
2	None	100Hz square
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 210.7Hz	QT 210.7Hz
6	QT 250.3Hz	QT 250.3Hz
7	DQT D023N	DQT D023N
8	DQT D754I	DQT D754I
9	DTMF DEC, (159D)	DTMF ENC, (159D)
10	None	DTMF tone (9)
11	2-tone 321.7/928.1Hz	None
12	Single tone 1200Hz	Single tone 1200Hz

■ Preparations for tuning the transceiver

Before attempting to tune the transceiver, connect the unit to a suitable power supply.

Whenever the transmitter is turned, the unit must be connected to a suitable dummy load (i.e. power meter).

The speaker output connector must be terminated with a $4\,\Omega$ dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during tuning.

■ Transceiver tuning

(To place transceiver in tuning mode)

Channel appears on LCD. Set channel according to tuning requirements.

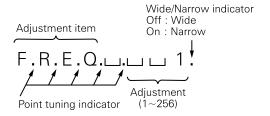
LCD display (Test mode)



Press [SCN], now in tuning mode. Use [D/A] button to write tuning data through tuning modes, and $[CH \sim / \sim]$ to adjust tuning requirements (1 to 256 appears on LCD).

Use $[\, ullet]$ button to select the adjustment item through tuning modes. Use [A] button to adjust 3-point or 5-point tuning, and use $[\, ullet]$ button to switch between wide/narrow.

LCD display (Tuning mode)



信令

信令号码	接收	发 射
1	无	无
2	无	100Hz方波
3	QT67. OHz	QT67. OHz
4	QT151.4Hz	QT151.4Hz
5	QT210. 7Hz	QT210. 7Hz
6	QT250. 3Hz	QT250. 3Hz
7	DQT DO23N	DQT DO23N
8	DQT D7541	DQT D7541
9	DTMF DEC, (159D)	DTMF ENC, (159D)
10	无	DTMF音频9
11	双音信令321.7/928.1Hz	无
12	单音信令1200Hz	单音信令1200Hz

■ 调整车台机的准备

在进行调整车台机之前, 将主机与电源连接。

无论何时调整发射部分, 主机必须连接到合适的假负载(或功率仪)。

在整个调整过程中,扬声器输出必须经过 4Ω 假负载并被连接到一个交流电压表和一个音频失真测试仪或一个SINAD测量仪。

■ 车台机调整

(将车台机置于调整模式)

信道显示在LCD上。按照调整所需设定信道。

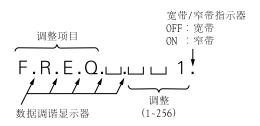
LCD显示(测试模式)



按[SCN]键进入调谐模式。使用[数/模]按键通过调谐模式写入调谐数据,并使用[CH本/~]键调整调谐要求(1到256出现在LCD上)。

使用[▼]按键通过调谐模式选择调整项。使用[A]键调整 3点或5点调谐,并使用[▲]键转换宽/窄。

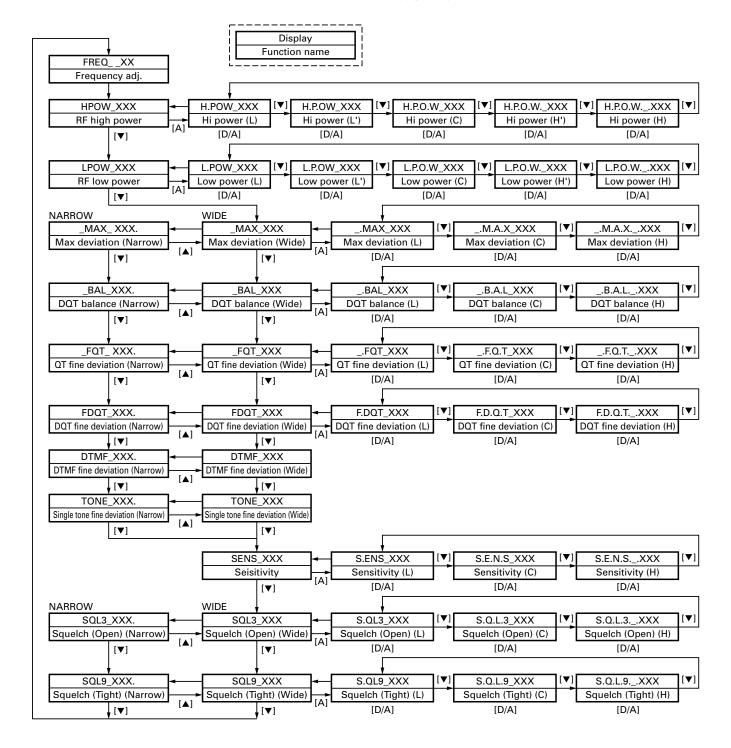
LCD显示(调谐模式)



ADJUSTMENT/调整

■ Tuning Mode

■ 调谐模式



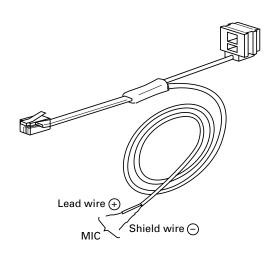
ADJUSTMENT

Test Equipment Required for Alignment

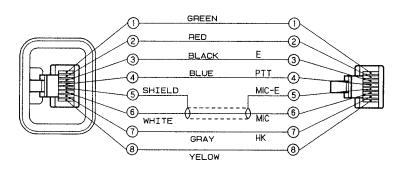
Test Equipment		Major Specifications
Standard Signal Generator	Frequency Range	350 to 520MHz
(SSG)	Modulation	Frequency modulation and external modulation
	Output	–127dBm/0.1μV to greater than –7dBm/100mV
2. Power Meter	Input Impedance	50Ω
	Operation Frequency	350 to 520MHz or more
	Measurement Capability	Vicinity of 100W
3. Deviation Meter	Frequency Range	350 to 520MHz
4. Digital Volt Meter	Measuring Range	1 to 20V DC
(DVM)	Accuracy	High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity	Frequency Range	10Hz to 1000MHz
Frequency Counter	Frequency Stability	0.2ppm or less
7. Ammeter		20A
8. AF Volt Meter	Frequency Range	50Hz to 10kHz
(AF VTVM)	Voltage Range	1mV to 3V
9. Audio Generator (AG)	Frequency Range	20Hz to 20kHz or more
	Output	0 to 1V
10. Distortion Meter	Capability	3% or less at 1kHz
	Input Level	50mV to 10Vrms
11. 4Ω Dummy Load		Approx. 4Ω , 10W or more
12. Regulated Power Supply		13.6V, approx. 20A (adjustable from 9 to 17V)
		Useful if ammeter requipped

Tuning cable (E30-3383-05)

Adapter cable (E30-3383-05) is required for injecting an audio if PC tuning is used. See "PC Mode" section for the connection.



Test cable for microphone input (E30-3360-08)



MIC connector (Front view)



- 1 : BLC
- 2 : PSB
- 3 : E
- 4 : PTT
- 5 : ME
- 6 : MIC 7 : HOOK
- 8 : CM

调 整

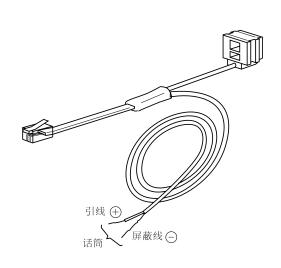
所需的用于调整的测试设备

	测试设备		主 要 特 性
1.	标准信号发生器(SSG)	频率范围	350到520MHz
		调制	调频和外部调制
		输出	-127dBm/0.1μV到大于-7dBm/100mV
2.	功率计	输入阻抗	50Ω
		操作频率	350到520MHz或更高
		测量范围	100W左右
3.	偏差仪	频率范围	350到520MHz
4.	数字电压表(DVM)	测量范围	直流1V到20V
		输入阻抗	为最小电路负载高输入阻抗
5.	示波器		直流到30MHz
6.	高灵敏度频率计数器	频率范围	10Hz到1000MHz
		频率稳定性	O. 2ppm或更低
7.	电流表		20A
8.	音频电压表(AF VTVM)	频率范围	50Hz到10kHz
		电压范围	1mV到3V
9.	音频发生器(AG)	频率范围	20Hz到20kHz或更高
		输出	O到1V
10.	失真测试仪	容量	在1kHz时3%或更低
		输入电平	50mV到10Vrms
11.	4Ω假负载		大约4Ω, 10W或更高
12.	可调电源		13. 6V, 大约20A
			配备了电流表时有用

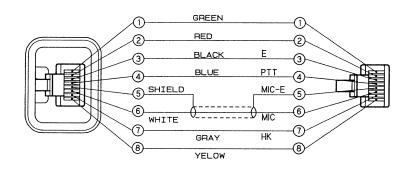
调谐电缆(E30-3383-05)

如果使用计算机调谐. 接头电缆(E30-3383-05) 将用于插入一个音频。

参见"计算机模式"章节有关连接的内容。



用于话筒输入的测试电缆(E30-3360-08)



话筒连接器(前视)



- 1 : BLC
- 2 : PSB
- 3 : E
- 4 : PTT
- 5 : ME
- 6 : MIC
- 7 : HOOK
- 8; CM

ADJUSTMENT

Common Section

		Measurement				Adj	ustment		
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks	
1. PLL lock voltage RX	1) Set test mode CH: CH3 - Sig1	DVM Power meter F. conter	TX-RX (A/2)	CV	PLL	TC106	7.0V	±0.1V	
TX	2) PTT : ON (Transmit)					TC109	7.0V		
RX	3) CH : CH2 - Sig1						Check	0.8V or more	
TX	4) PTT : ON (Transmit)							0.8V or more	

Receiver Section

	Condition	Measurement				Adj	ustment	
Item		Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
1. Discriminator • Wide	1) Set test mode $ CH: CH1 - Sig1 \\ SSG \ output: -53dBm/501 \mu V \\ SSG \ freq' \\ : 370.050MHz \\ SSG \ MOD: 3kHz \\ AF: 1.4V/4 \Omega $	SSG AF VTVM Oscilloscope	Rear panel	ANT ACC (EXT.SP)	TX-RX (A/2)	L5	AF output maximum.	
2. Sensitivity ◆ Wide	1) Set test mode Select "SENS" in tuning mode. "S.E.N.S" Adjust [250] SSG freq' : 389.950MHz SSG output: -103dBm/1.58μV SSG MOD: 3kHz AF output: 1V/4Ω	SSG AF VTVM Distortion meter Oscilloscope AG DVM	Rear panel TX-RX (A/2)	ANT ACC (EXT.SP)	TX-RX (A/2)	L13 L22	RSSI voltage maximum.	
	2) "S.ENS" Adjust [***] SSG freq' : 350.050MHz 3) "S.E.N.S" Adjust [***] SSG freq' : 370.050MHz				Front	CH~/~	RSSI voltage maximum.	

调 整

公用部分

项 目	条件	测量				诅	整整	规 格/备 注
- 坝 日		测量装置	单元	端子	单元	部件	方 法	观 悄 / 苷 住
1. 压控振 荡器电压 接收	1) [测试模式] CH:CH3-Sigl	DVM 功率计 频率计	TX-RX (A/2)	CV	PLL	TC106	7. OV	±0.1V
发射	2) PTT: 开启(发射)					TC109	7. OV	
接收	3) CH: CH2-Sig1						检查	0.8V或更高
发射	4) PTT: 开启(发射)							0.8V或更高

接收部分

755 H	·	测量			调整			46 46 / 6r 34·
项 目	余 1 11 11 11 11 11 11 11	测量装置	单元	端子	单元	部件	方 法	规格/备注
1. 辨別器 ●宽	1) [测试模式] CH: CH1-Sigl 标准信号发生器输出 : -53dBm/501μV 标准信号发生器频率 : 370.050MHz 标准信号发生器调制: 3kHz AF: 1.4V/4Ω	SSG AF VTVM 示波器	背面板	ANT ACC (EXT. SP)	TX-RX (A/2)	L5	最大音频输出	
2. 灵敏度 ●宽	1) [测试模式] 在调谐模式中选择 "SENS" "S. E. N. S" 调整[250] 标准信号发生器频率 : 389.950MHz 标准信号发生器输出 : -103dBm/1.58 μ V 标准信号发生器调制: 3kHz AF: 1V/4 Ω	SSG AF VTVM 失真测试仪 示波器 AG DVM	背面板 TX-RX (A/2)	ACC (EXT. SP)		L22	最大RSSI电压 最大RSSI电压	
	标准信号发生器频率 : 350.050MHz 3) *S. E. N. S* 调整[***] 标准信号发生器频率 : 370.050MHz							

ADJUSTMENT

		Mea	sureme	ent		Adj	ustment	
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
3. Squelch 3 ◆ Wide	1) Set test mode Select "SQL3" in tuning mode. "S.QL3" Adjust [***] SSG freq' : 350.050MHz SSG output: -125dBm/0.12µV SSG MOD: 3kHz (Wide) 1.5kHz (Narrow) 2) "S.Q.L.3" Adjust [***] SSG freq' : 370.050MHz 3) "S.Q.L.3" Adjust [***] SSG freq' : 389.950MHz	SSG AF VTVM Distortion meter Oscilloscope AG	Rear panel	ANT ACC (EXT.SP)	Front	CH~/~	Adjust to the squelch threshold point.	
• Narrow	4) "SQL3***." Adjust [***] SSG freq' : 370.050MHz							
4. Squelch 9 • Wide	1) Set test mode Select "SQL9" in tuning mode. "S.QL9" Adjust [***] SSG freq' : 350.050MHz SSG output: -115dBm/0.4µV SSG MOD: 3kHz (Wide) 1.5kHz (Narrow)							
	2) "S.Q.L.9" Adjust [***] SSG freq' : 370.050MHz 3) "S.Q.L.9" Adjust [***] SSG freq' : 389.950MHz							
• Narrow	4) "SQL9***." Adjust [***] SSG freq' : 370.050MHz							
5. Squelch check	1) Set test mode CH: CH1 - Sig1~CH3 - Sig1 SSG output: -116dBm/0.35μV						Check	Squelch must be opened. (Wide/Narrow)
	2) SSG output : OFF							Squelch must be closed. (Wide/Narrow)

调 整

		- I	ll 量				1 整	
项 目	条件	测量装置	単元	端子	单元	部件	方法	規格/备注
3. 静噪抑制 电路3 ●宽	1) [测试模式] 在调谐模式中选择 "SQL3" "S. QL3" 调整 [***] 标准信号发生器频率 : 350. 050MHz 标准信号发生器输出 : -125dBm/0. 12 μV 标准信号发生器调制 : 3kHz(宽) : 1. 5kHz(窄) 2) "S. Q. L. 3" 调整 [***] 标准信号发生器频率 : 370. 050MHz 3) "S. Q. L. 3" 调整 [***] 标准信号发生器频率 : 389. 950MHz	SSG AF VTVM 失真测试仪 示波器 AG	背面板		前面板		调整到噪音抑制 电路临限点	
_ ● 窄	4) "SQL3***." 调整[***] 标准信号发生器频率 : 370. 050MHz							
4. 静噪抑制 电路9 ●宽	1) [测试模式] 在调谐模式中选择 "SQL9" "S. QL9" 调整 [***] 标准信号发生器频率 : 350. 050MHz 标准信号发生器输出 : —115dBm/0. 4 µ V 标准信号发生器调制 : 3kHz(宽) :1.5kHz(窄)							
	2) "S. Q. L. 9" 调整[***] 标准信号发生器频率 : 370. 050MHz							
	3) "S. Q. L. 9" 调整[***] 标准信号发生器频率 : 389. 950MHz							
● 窄	4) "SQL9***." 调整[***] 标准信号发生器频率 : 370. 050MHz							
5. 静噪抑制 电路检查	1) [测试模式] CH: CH1-Sig1-CH3-Sig1 标准信号发生器输出 : -116dBm/0.35 μV						检查	静噪必须被打开(宽/窄)
	2) 标准信号发生器输出: 关闭							静噪必须被关闭(宽/窄)

ADJUSTMENT

			Measurement			Adj	ustment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
6. QT check	1) Set test mode CH: CH1 - Sig4 SSG MOD INT: 3kHz (Wide), 1.5kHz (Narrow) EXT: 151.4Hz SSG system MOD DEV : ±3.75kHz (Wide), ±1.85kHz (Narrow) SSG output: 10dB SINAD level 2) CH: CH1 - Sig3 CH1 - Sig5 CH1 - Sig6	meter Oscilloscope	Rear panel	ANT ACC (EXT.SP)			Check	Squelch must be opened.

Transmitter Section

Condition	Mea	sureme	ent		Adj	ustment	
	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
1) Set test mode Select "FREQ" in tuning mode. PTT : ON Adjust [_**]		Rear panel	ANT	Front panel	CH~/~	Check	370.100MHz±100Hz
1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON						Check	More than 26.0W
1) Set test mode Select "HPOW" in tuning mode. "H.POW" PTT: ON Adjust [***]						25.0W	±1.0W
2) "H.P.OW" PTT : ON Adjust [***]							
3) "H.P.O.W" PTT : ON Adjust [***]							
4) "H.P.O.W." PTT : ON Adjust [***]							
5) "H.P.O.W" PTT : ON Adjust [***]							
1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 2) "L.P.OW" PTT: ON	Power mete					5.0W	±0.5W
	1) Set test mode Select "FREQ" in tuning mode. PTT: ON Adjust [_**] 1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON 1) Set test mode Select "HPOW" in tuning mode. "H.POW" PTT: ON Adjust [***] 2) "H.P.OW" PTT: ON Adjust [***] 3) "H.P.O.W" PTT: ON Adjust [***] 4) "H.P.O.W." PTT: ON Adjust [***] 5) "H.P.O.W." PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***]	Test-equipment 1) Set test mode Select "FREQ" in tuning mode. PTT: ON Adjust [_**] 1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON 1) Set test mode Select "HPOW" in tuning mode. "H.POW" PTT: ON Adjust [***] 2) "H.P.OW" PTT: ON Adjust [***] 3) "H.P.O.W" PTT: ON Adjust [***] 4) "H.P.O.W." PTT: ON Adjust [***] 5) "H.P.O.W" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 2) "L.P.OW" PTT: ON	Test-equipment 1) Set test mode Select "FREQ" in tuning mode. PTT: ON Adjust [_**] 1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON Adjust [***] 2) "H.P.OW" PTT: ON Adjust [***] 3) "H.P.O.W" PTT: ON Adjust [***] 4) "H.P.O.W." PTT: ON Adjust [***] 5) "H.P.O.W" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 2) "L.P.O.W" PTT: ON Adjust [***]	1) Set test mode Select "FREQ" in tuning mode. PTT: ON Adjust [_**] 1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON Adjust [***] 2) "H.P.OW" PTT: ON Adjust [***] 3) "H.P.O.W" PTT: ON Adjust [***] 4) "H.P.O.W." PTT: ON Adjust [***] 5) "H.P.O.W." PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 2) "L.P.OW" PTT: ON	Test-quipment Unit Terminal Unit	Test-equipment Unit Terminal Unit Parts 1) Set test mode Select "FREQ" in tuning mode. PTT: ON Adjust [_**] 1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON 1) Set test mode Select "HPOW" in tuning mode. "H.POW" PTT: ON Adjust [***] 2) "H.P.O.W" PTT: ON Adjust [***] 4) "H.P.O.W." PTT: ON Adjust [***] 5) "H.P.O.W." PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. Power mete Select "LPOW" PTT: ON Adjust [***] 1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***] 2) "L.P.OW" PTT: ON Adjust [***] 2) "L.P.OW" PTT: ON Adjust [***] 2) "L.P.OW" PTT: ON Adjust [***]	Test-quipment Unit Terminal Unit Parts Method

调 整

项目	条件)	」 量			诅	整	规格/备注
- 坝 日		测量装置	单元	端子	单元	部件	方 法	观 悄 / 苷 住
6. QT检查	1) [测试模式] CH: CH1-Sig4 标准信号发生器调制 INT: 3kHz(宽), 1.5kHz(窄) EXT: 151.4Hz 标准信号发生器系统MOD DEV : ±3.75kHz(宽), ±1.85kHz(窄) 标准信号发生器输出 : 1OdB SINAD电平	SSG AF VTVM 失真测试仪 示波器 AG	背面板	ANT ACC (EXT. SP)				
	2) CH: CH1-Sig3 CH1-Sig5 CH1-Sig6						检查	静噪必须被打开

发射部分

*## III	for the	J	ll 量			识	整	461 462 / Nr. 34-
项 目	条件	测量装置	单元	端子	単元	部件	方 法	規格/备注
1. 频率	1) [测试模式] 在调谐模式中选择 "FREQ" PTT: 开启 调整 [**]	功率计 频率计	背面板	ANT		CH~/~		370. 100MHz ±100Hz
2. 功率输出	1) 最大功率 [测试模式] 在调谐模式中选择 "HPOW" "H. POW" 调整[256] PTT: 开启						检查	26. 0\或更高
3. 高功率	1) [测试模式] 在调谐模式中选择 "HPOW" "H. POW" PTT: 开启 调整[***]						25. OW	±1.0W
	2) "H. P. OW PTT: 开启 调整[***]							
	3) "H. P. O. W PTT: 开启 调整[***]							
	4) "H. P. O. W. " PTT: 开启 调整[***]							
	5) "H. P. O. W " PTT: 开启 调整[***]							
4. 低功率	1) [测试模式] 在调谐模式中选择 "LPOW" "L. POW" PTT: 开启 调整[***]	功率计					5. OW	±0.5W
	2) "L. P. OW PTT: 开启 调整[***]							

ADJUSTMENT

		Mea	sureme	ent		Adj	ustment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
	3) "L.P.O.W" PTT: ON Adjust [***] 4) "L.P.O.W." PTT: ON Adjust [***] 5) "L.P.O.W" PTT: ON Adjust [***]	Power meter	Rear panel	ANT	Front panel	CH~/~	5.0W	±0.5W
5. Power check	1) Set test mode CH: CH1 - Sig1 CH2 - Sig1 CH3 - Sig1 PTT: ON	Power meter Ammeter	Rear panel	ANT DC IN			Check	25W±1W, 8A or less
6. Modulation balanced • Wide	1) Set test mode MIC input: OFF Select "BAL" in tuning mode. "BAL" Deviation meter filter LPF: 3kHz HPF: OFF De-emphasis: OFF PTT: ON Adjust [***] 2) "B.A.L" PTT: ON Adjust [***] 3) "B.A.L" PTT: ON	Power meter Deviation meter Oscilloscope AF VTVM AG	Rear panel Front panel	MIC	Front panel	CH~/~	Make the de- modulation waveform neat.	(Wide/Narrow)
• Narrow	Adjust [***] 4) "_BAL***." PTT : ON Adjust [***]							
7. Maximum deviation • Wide	1) Set test mode Connect AG to the MIC terminal. Select "MAX" in tuning mode. "MAX" AG: 1kHz/50mV Deviation meter filter LPF: 15kHz HPF: OFF De-emphasis: OFF PTT: ON Adjust [***] 2) "M.A.X" PTT: ON Adjust [***]						3.95kHz (Wide) 1.95kHz (Narrow) (According to the larger +, –)	±50Hz (Wide/Narrow)
• Narrow	3) "M.A.X" PTT: ON Adjust [***] 4) "_MAX***." PTT: ON Adjust [***]							

调 整

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项 目	条件	测量装置	单元	端子	単元	部件	方 法	規格/备注
	3) L. P. O. W PTT: 开启 调整[***] 4) L. P. O. W. PTT: 开启 调整[***] 5) L. P. O. W PTT: 开启 调整[***]	功率计	背面板	ANT	前面板	CH~/~	5. OW	±0.5W
5. 功率检查	1) [测试模式] CH:CH1-Sig1 CH2-Sig1 CH3-Sig1 PTT: 开启	功率计电流表	背面板	ANT DC IN			检查	25W±1W 8A或更低
6. 调制平衡 ●宽 ●窄	1) [测试模式] 话筒输入:关闭 在调谐模式中选择"BAL" BAL" 偏差仪滤波器 LPF:3kHz HPF:关闭 去加重:关闭 PTT:开启 调整[***] 2)B.A.L PTT:开启 调整[***] 3)B.A.L PTT:开启 调整[***] 4)BAL***. PTT:开启 调整[***]	功率 H M A A F VTVM A G	背面板前面板		前面板	CH~/~	使调整波形为方形波	(宽/窄)
7. 最大频偏 ●宽 ●窄	1) [测试模式] 将音频发生器连接到话筒终端 在调谐模式中选择 MAX "MAX" AG: 1kHz/50mV 偏差仪滤波器 LPF: 15kHz HPF: 关闭 去加重: 关闭 PTT: 开启 调整[***] 2) ", M. A. X PTT: 开启 调整[***] 3) "_, M. A. X" PTT: 开启 调整[***]						3.95kHz(宽) 1.95kHz(窄) (按照较大+,一)	±50Hz (宽/窄)

ADJUSTMENT

		Mea	sureme	ent		Adj	ustment	
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
8. MIC seisitivity check	1) Set test mode CH: CH1 - Sig1 AG: 1kHz/5mV PTT: ON Adjust [***]	Power meter Deviation meter Oscilloscope	Rear panel	ANT			Check	±2.4kHz~3.4kHz
9. QT deviation • Wide	1) Set test mode Select "FQT" in tuning mode. "FQT" Deviation meter filter LPF: 3kHz, HPF: OFF PTT: ON Adjust [***] 2) "F.Q.T" PTT: ON Adjust [***] 3) "F.Q.T" PTT: ON Adjust [***]	AG	panel	MIC	Front panel	CH~/~	0.75kHz	±50Hz (Wide/Narrow)
Narrow	4) "FQT***." PTT: ON Adjust [***]						0.35kHz	
10. DQT deviation • Wide	1) Set test mode Select "FDQT" in tuning mode. "F.DQT" Deviation meter filter LPF: 3kHz, HPF: OFF PTT: ON Adjust [***] 2) "F.D.Q.T" PTT: ON Adjust [***] 3) "F.D.Q.T" PTT: ON Adjust [***]				Front panel	CH~/~	0.75kHz	±50Hz
Narrow	4) "FDQT***." PTT : ON Adjust [***]						0.36kHz	±40Hz
11. DTMF deviation • Wide	1) Set test mode Select "DTMF" in tuning mode. Deviation meter filter LPF: 15kHz, HPF: OFF PTT: ON Adjust [***]				Front panel	CH~/~	3.0kHz	±0.2kHz
Narrow	2) "DTMF***." PTT : ON Adjust [***]						1.5kHz	±0.1kHz
12. TONE deviation • Wide	1) Set test mode Select "TONE" in tuning mode. Deviation meter filter LPF: 15kHz, HPF: OFF PTT: ON Adjust [***]				Front panel	CH~/~	3.0kHz	±0.1kHz (Wide/Narrow)
• Narrow	2) "TONE***." PTT : ON Adjust [***]						1.5kHz	

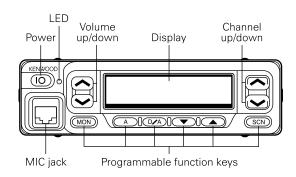
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项 目	条件	测量装置		端子	单元	部件	方 法	規格/备注
8. 话筒灵敏度 检查	1) [测试模式] CH: CH1-Sig1 AG: 1kHz/5mV PTT: 开启 调整[***]	功率计 偏差仪 示波器 AF VTVM	背面板前面板				检查	±2. 4kHz~3. 4kHz
9. QT频偏 ●宽 ●窓	1) [测试模式] 在调谐模式中选择 FQT FQT 偏差仪滤波器 LPF: 3kHz. HPF: 关闭 PTT: 开启 调整[***] 2) F.Q. T PTT: 开启 调整[***] 3) F.Q. T PTT: 开启 调整[***] 4)FQT***. PTT: 开启	AG			前面板	CH.∧/~	O. 75kHz O. 35kHz	±50Hz(宽/窄)
10. DQT频偏 ●宽	调整[***] 1) [测试模式] 在调谐模式中选择 FDQT F. DQT 偏差仪滤波器				前面板	CH~/~	O. 75kHz	±50Hz
● 窄	2) F. D. Q. T PTT: 开启 调整[***] 3) F. D. Q. T PTT: 开启 调整[***] 4) FDQT***. PTT: 开启 调整[***]						O. 36kHz	±40Hz
●宽 	1) [测试模式] 在调谐模式中选择 DTMF 偏差仪滤波器 LPF: 15kHz. HPF: 关闭 PTT: 开启 调整[***]	 			前面板	CH~/~	3. OkHz	±0. 2kHz
●窄	2) "DTMF***." PTT:开启 调整[***]						1.5kHz	±0.1kHz
12. TONE頻偏 ●宽	1) [测试模式] 在调谐模式中选择 "TONE" 偏差仪滤波器 LPF: 15kHz, HPF: 关闭 PTT: 开启 调整[***]	I			前面板	CH~/~	3. OkHz	±0.1kHz
● 窄	2) "TONE***." PTT: 开启 调整[***]						1.5kHz(窄)	

ADJUSTMENT / 调整

Adjustment Location / 调整存储单元

■ Switch / 开关



■ Note

Flash memory

The firmware program (User mode, Test mode, Tuning mode, etc.) and the data programmed by the FPU (KPG-56D) for the flash memory, is stored in memory. When parts are changed, program the data again.

EEPROM

The tuning data (Deviation, Squelch, etc.) for the EEPROM, is stored in memory. When parts are changed, readjust the transceiver.

■ 注释

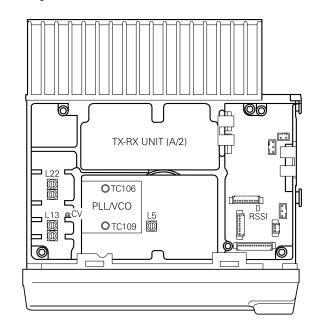
flash存储器

flash存储器的硬件程序(用户模式,测试模式,调谐模式,等等)和FPU(KPG-56D)编制的数据被储存在存储器中。 当零件被改变时,再次编制数据。

EEPROM

EEPROM的调谐数据(偏差,静噪,等等)被储存在存储器中。当零件被改变时,调整车台机。

■ Adjustment Point / 调整点



■ Repair Jig

Chassis

Use jig (Part No. : A10-4010-02) for repairing the TK-868G. The jig facilitates the voltage check when the voltage on the component side TX-RX unit is checked during repairs.

• Extension cable

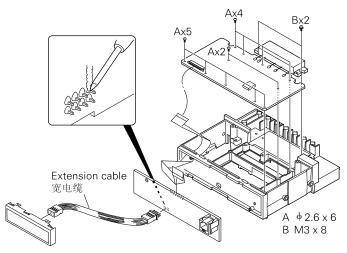
Part No.: E30-3404-05

■ 维修用具

底座

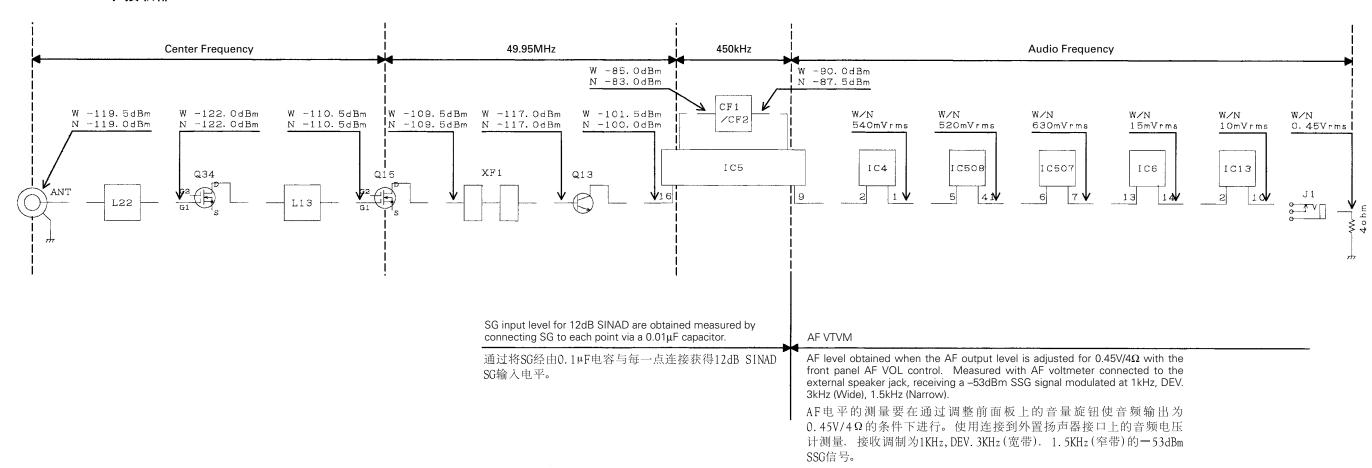
使用维修用具(零件号码:A10-4010-02)修理TK-868G。 在修理过程中,当发射-接收单元一侧元件上的电压被检查时,维修用具使电压检查增高。

零件号码: E30-3404-05

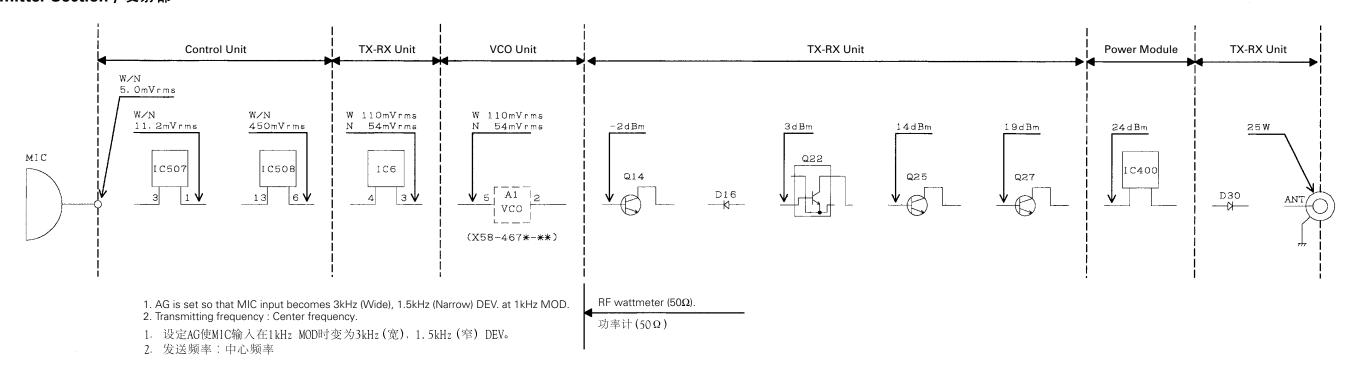


LEVEL DIAGRAM/电平图

Receiver Section / 接收部

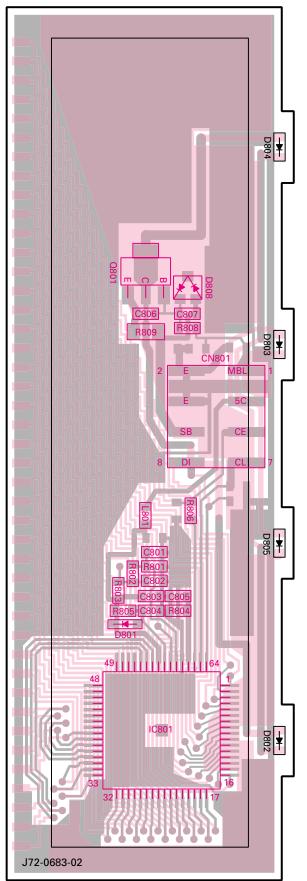


Transmitter Section / 发射部

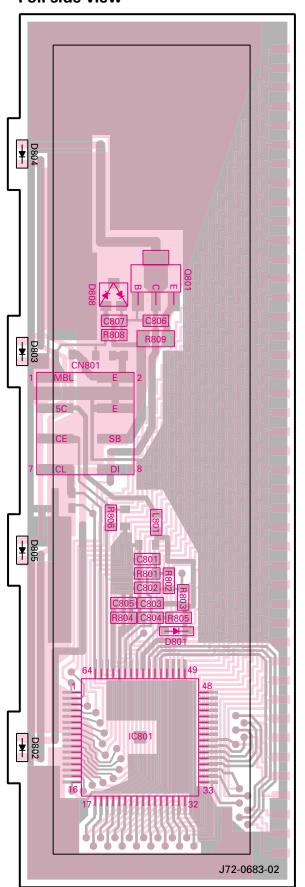


PC 板视图 TK-868G

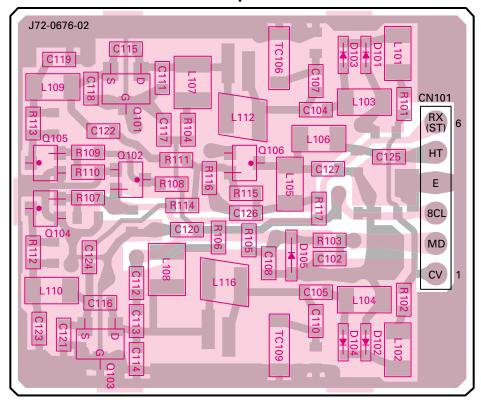
DISPLAY UNIT (X54-3270-10) Component side view



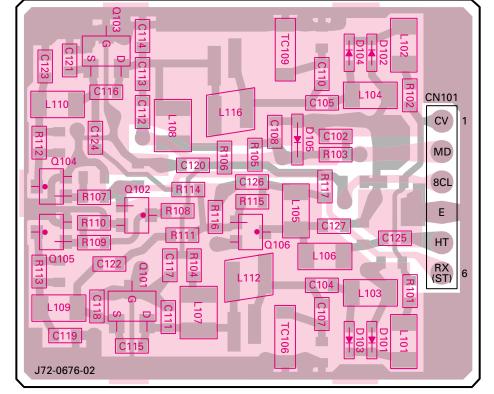
DISPLAY UNIT (X54-3270-10) Foil side view



PLL/VCO (X58-4670-16) Component side view

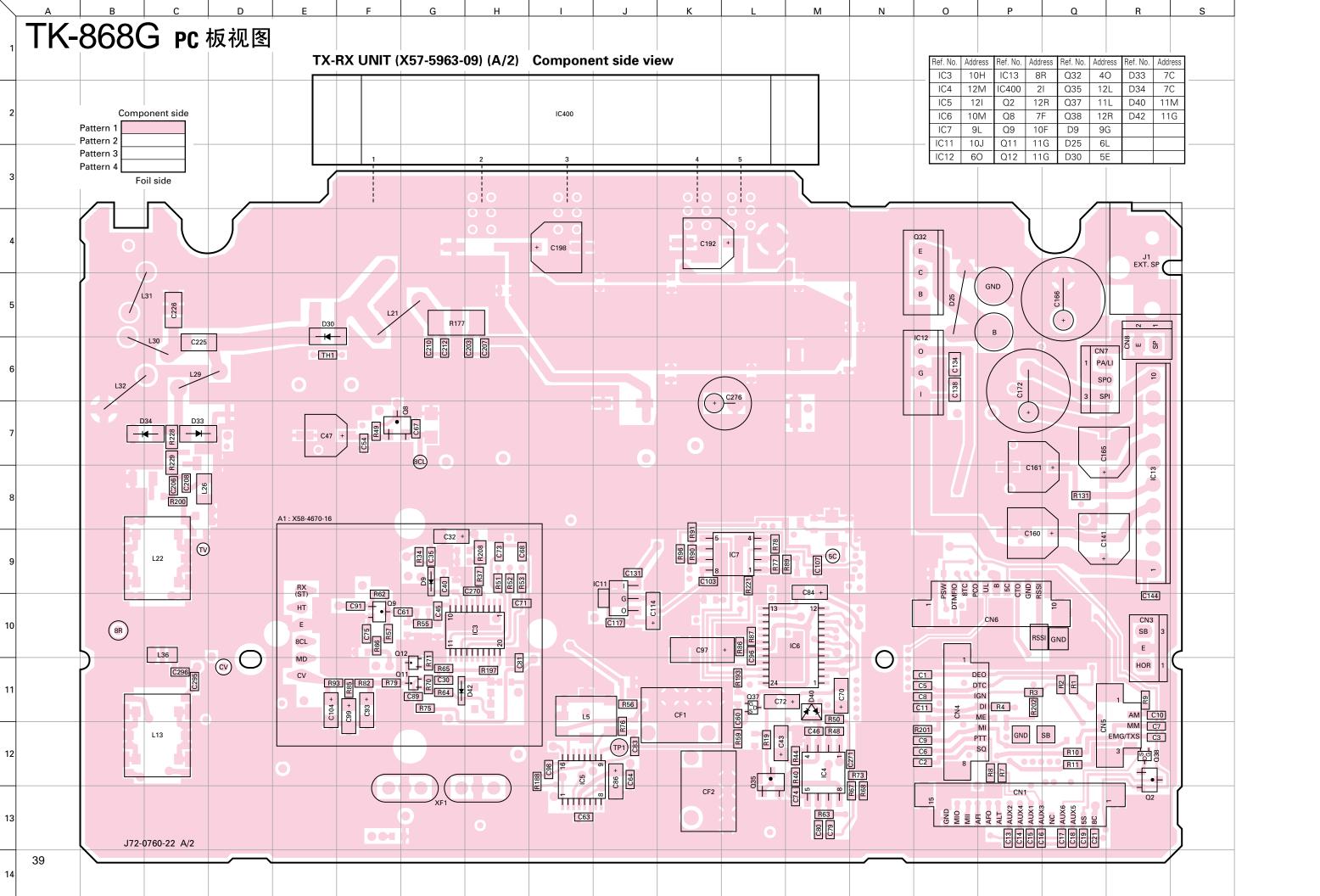


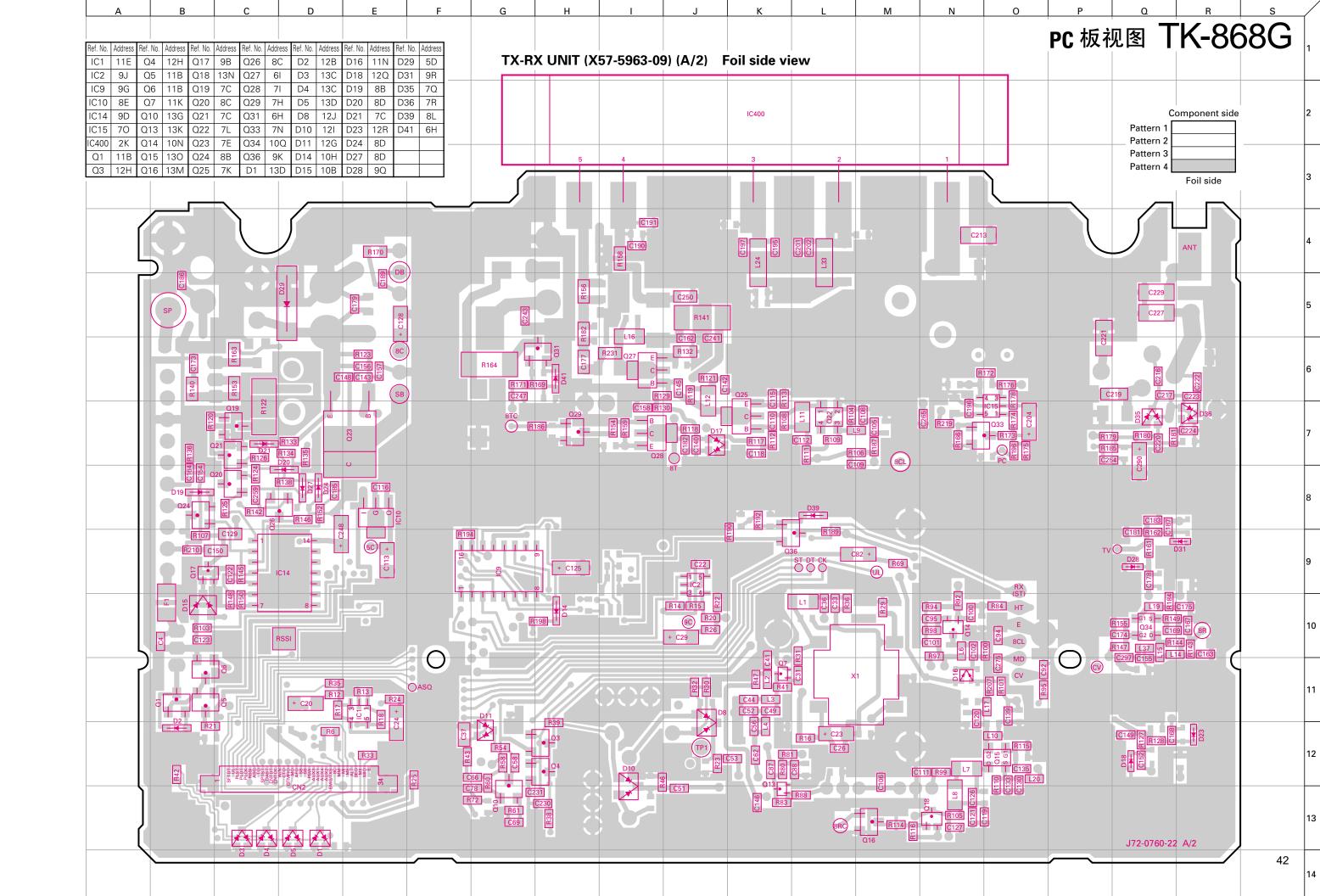
PLL/VCO (X58-4670-16) Foil side view

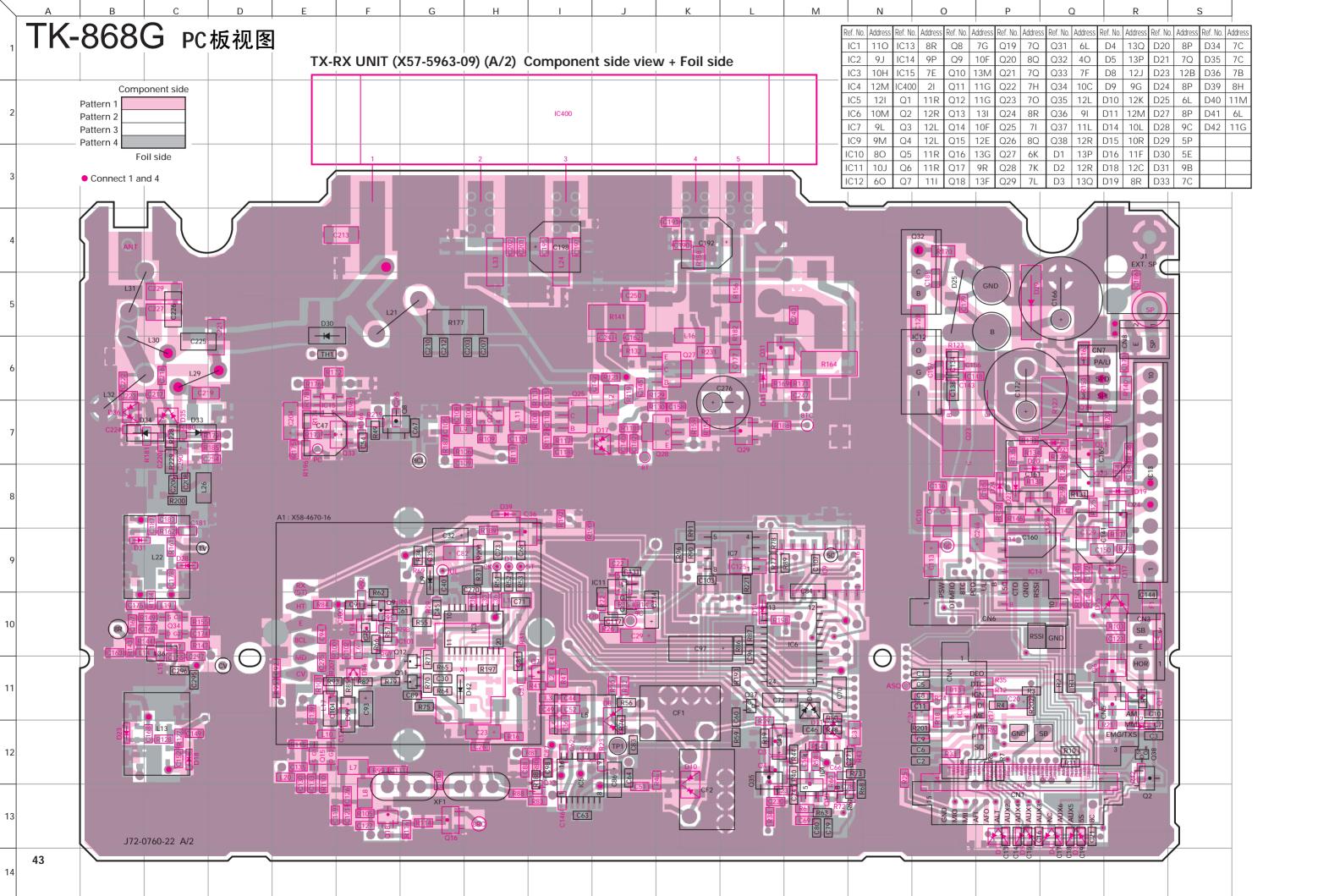


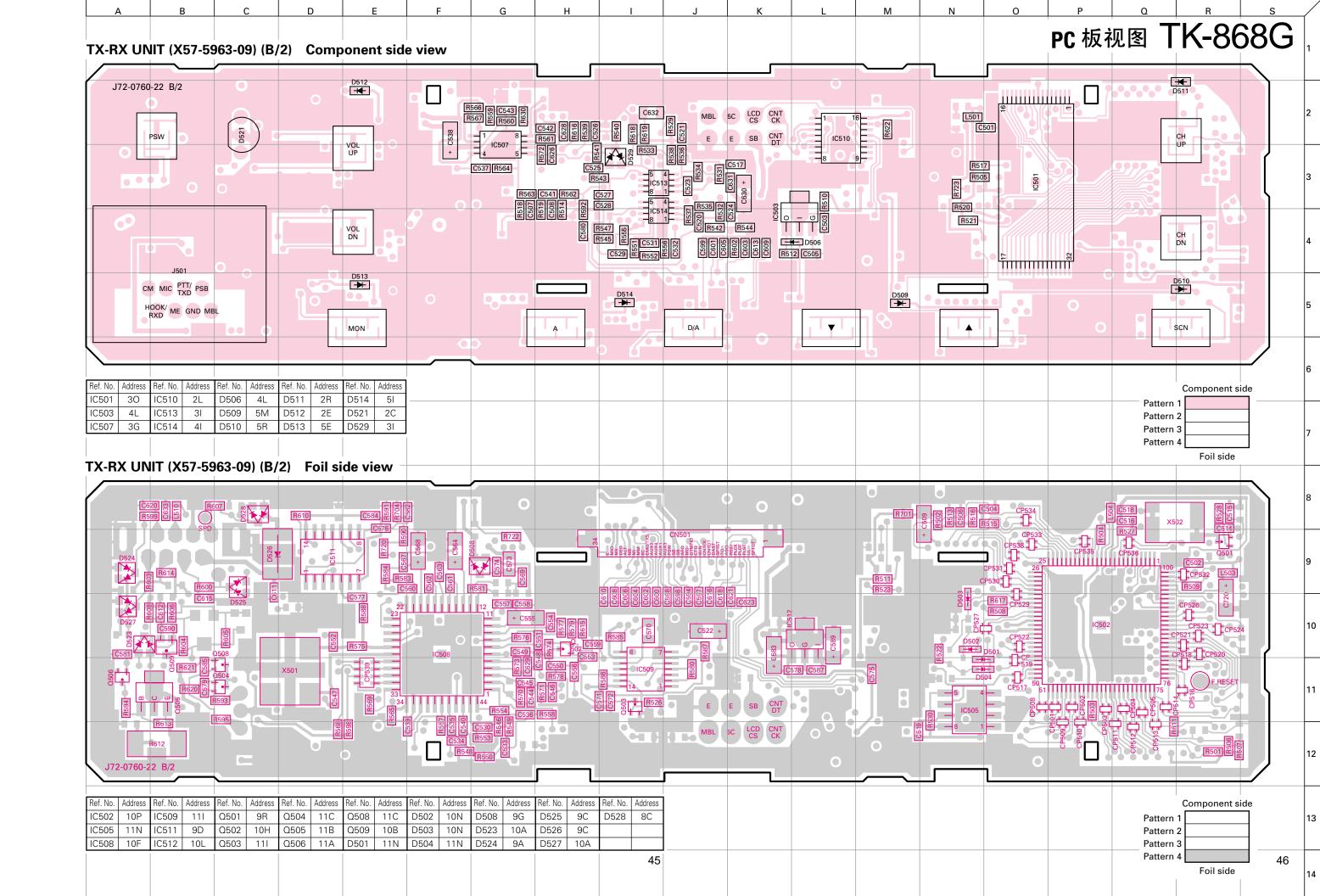
Component side
Foil side

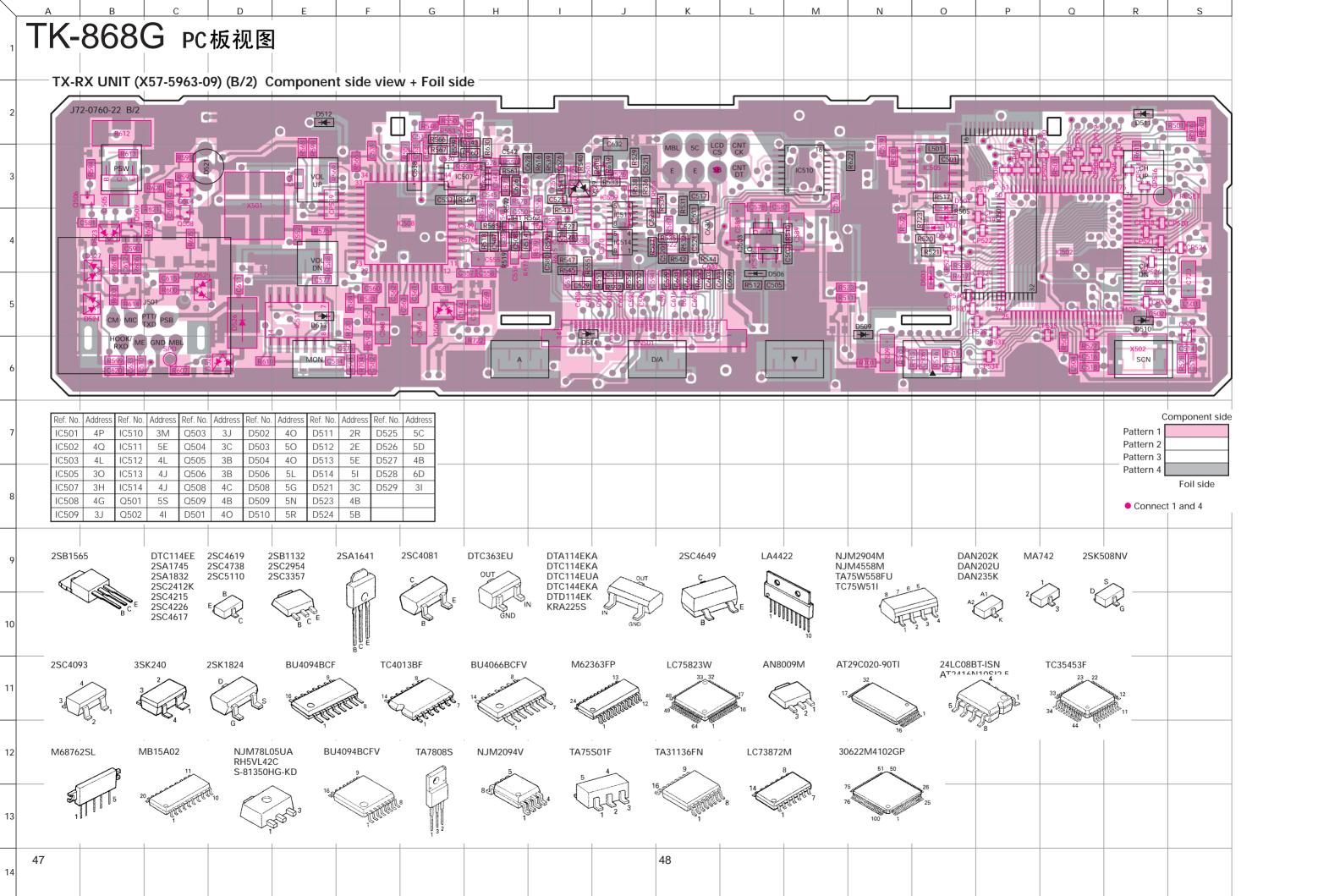
Component side Foil side



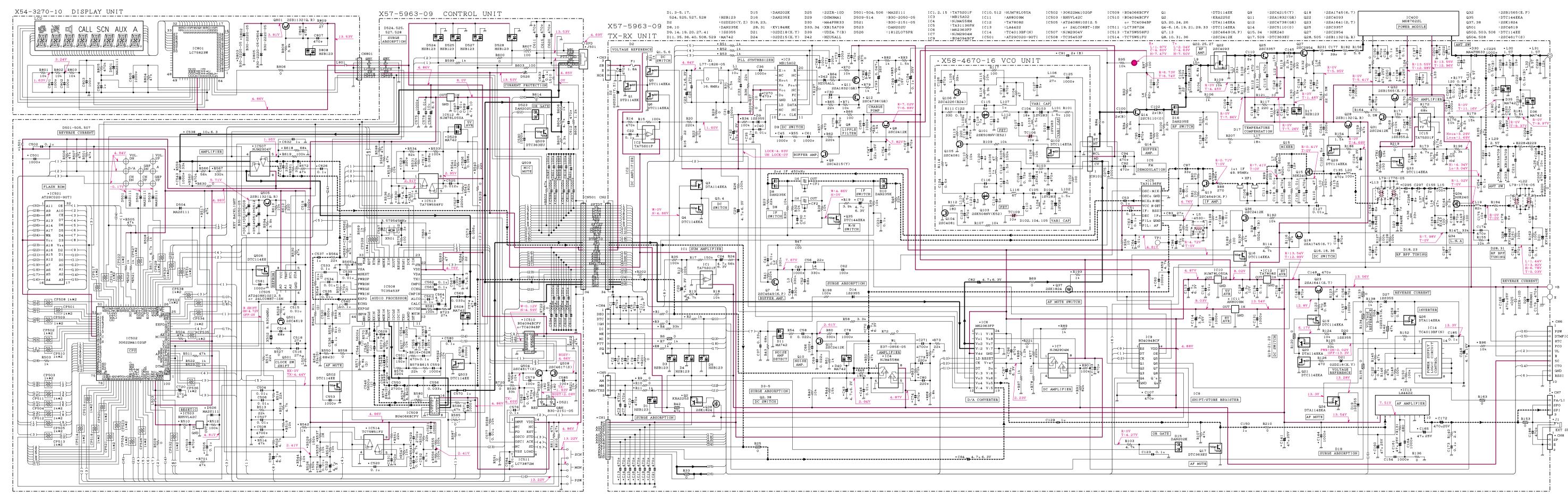




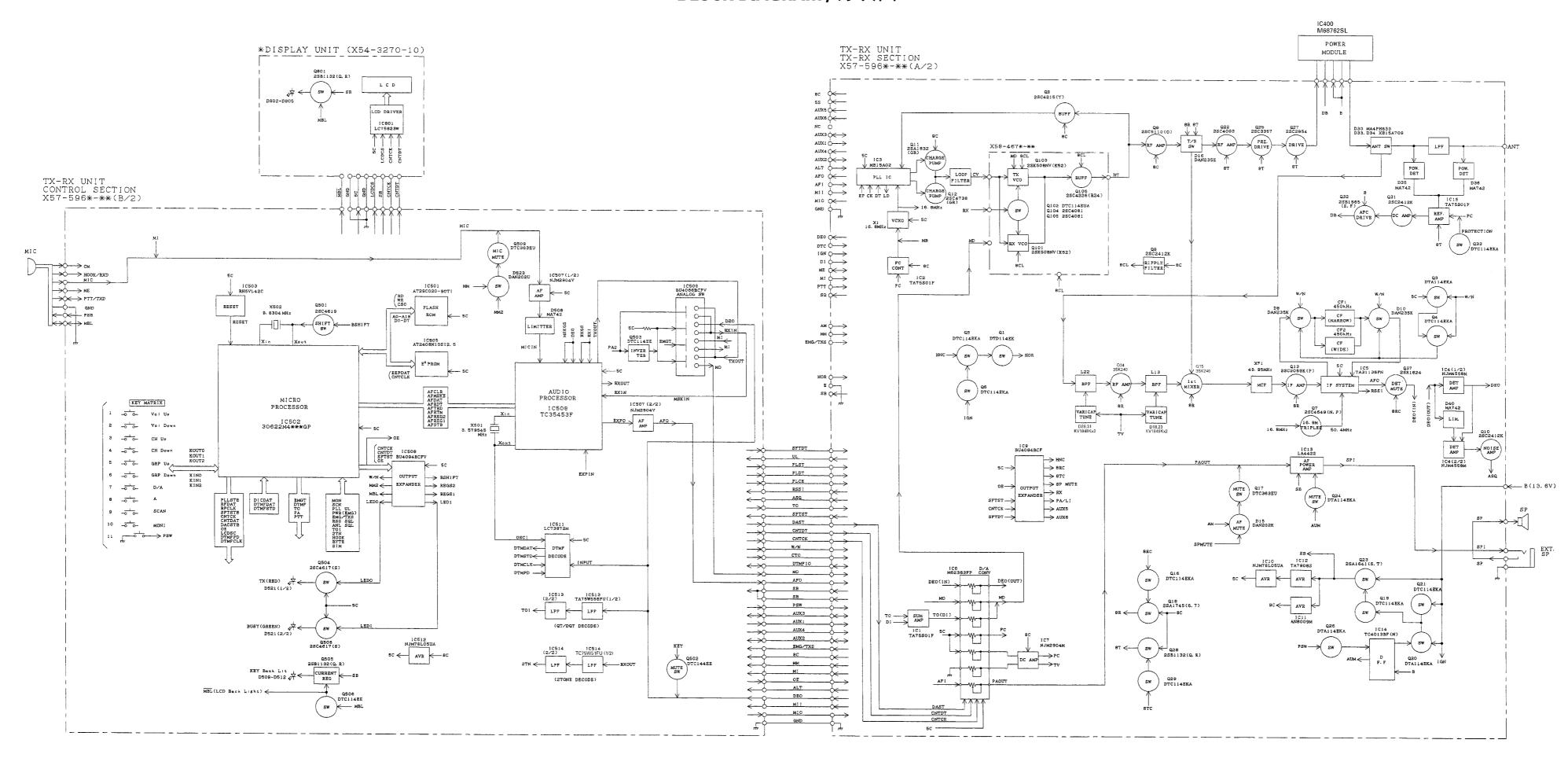




SCHEMATIC DIAGRAM / 原理图 TK-868G



BLOCK DIAGRAM / 方块图



SPECIFICATIONS

GENERAL

Current Drain Less than 0.4A on standby

Less than 1.0A on receive Less than 8.0A on transmit

Operating Temperature Range -30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$)

Channel Frequency Spread C6: 40MHz

RECEIVER (Measurements made per EIA standard EIA/TIA-204-D)

 Sensitivity (12dB SINAD)
 Wide: 0.28μV
 Narrow: 0.35μV

 Selectivity
 Wide: 80dB
 Narrow: 65dB

 Intermodulation
 Wide: 75dB
 Narrow: 63dB

 Spurious Responce
 85dB

 Audio Power Output
 4.0W

 Frequency Stability
 ±2.5ppm

TRANSMITTER (Measurements made per EIA standard EIA-152-C)

Spurious and Harmonics................ 65dB

Modulation Wide: 16K0F3E Narrow: 11K0F3E

FM Noise Wide: 50dB Narrow: 45dB

Audio Distortion Less than 3% Frequency Stability ±2.5ppm

规 格

概述

频率范围 C6:350~390MHz

组数量 最多128个

信道间距 宽:25kHz 窄:12.5kHz

锁相环电路步进频率 5, 6. 25kHz 工作电压 13. 6V直流±15%

电流消耗 备用时:低于0.4A

接收时: 低于1.0A 发射时: 低于8.0A

工作温度范围 -30℃到+60℃ (-22°F到+144°F)

尺寸和重量 140(5-33/64) 宽×40(1-37/64) 高×145(5-45/64) 长 毫米(英寸), 940g(2.07lbs)

信道频率扩展 C6:40MHz

接收部(以每EIA标准EIA/TIA-204-D进行测量)

灵敏度(12dB SINAD) 宽:0.28μV 窄:0.35μV

 假信号响应
 85dB

 音频功率输出
 4.0W

 频率稳定性
 ±2.5ppm

发射部(以每EIA标准EIA-152-C进行测量)

调制 宽:16K0F3E 窄:11K0F3E

频率调制噪音 宽:50dB 窄:45dB

音频失真 低于3% 频率稳定性 ±2.5ppm

如需使用此机二次开发, 请联络建伍公司或建伍经销商,

商讨提供专用插头及电缆事宜

零件号码: E37-0852-05, E37-0853-05,

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